

TABLE 1A

	1	20	30	40	50	60	70
<i>Streptococcus pneumoniae</i>	MRMTVGHGIDIEELASIESAVTRHEG.FAKRVLTAEQEMERFTSLKGRRQIEYLAGRWSA	QFAFSKAMGTG					
<i>Escherichia coli</i>	ATLGLGTQIVEIARTEAVIARSGDRLARRVSDNEWAIWK..THHQPVRFIAKFAV	AAAF					
<i>Klebsiella pneumoniae</i>	MATLGLGTQIVEIARTEAVIARSGDRLARRVSDHEWSIWE..QHQQPVRFIAKFAV	AGEXL					
<i>Enterococcus faecium</i>	MKEKIEIETAVLSRKPIVEKQGS.FIQRVETPNELTLFEKLSTKRQIEFLAGSFACK	AFSAW					
	80	90	100	110	120		
<i>Streptococcus pneumoniae</i>	.SKLGFQDLEVLNNERGAP.....YFSQAPFSGKIWLSISHTDQFVTASVILEENHES						
<i>Escherichia coli</i>	RNGLAFNQFVFYNDDELGKRLRLWGEALKLAELGVANMHVTLADERHYACATVVIIES						
<i>Klebsiella pneumoniae</i>	RNGLAFNQFVFYNDDELGKRLRLWGEANLLAERMGVSAIHVTLADERHYACATVIVES*						
<i>Enterococcus faecium</i>	.GKVGLQDIEVLTEKTGAP.....YVANSPhNGKVFVSITHTDMAIAQIVLESE*						

TABLE 1B

<i>S. pneumo AcpS₁</i>	MRMTVGHGIDIEELASIESAVTRHEGFAKRVLTAEQEMERFTS....LKGRRQIEYIA	
<i>Bacillus subtilis Sfp</i>	MKEVGIYMDRPLSQEENE.REMTF.IS...PEKR.EKCRRFYHKEDAHRTIL	
	1	54
<i>S. pneumo AcpS₁</i>	GRWSAKEAFSKAMGTGISKGLGFQDLEVLNNERGAPYFSQAPFSGKIWLSISHTDQFVTASVILEENHES	+++
<i>Bacillus subtilis Sfp</i>	GDVLRVSVISROYQ.....LDKSDIRFSTQYCKPCIPDLF...DAHFNESHSGRWIGAFDSQ	+++
	46	
<i>S. pneumo AcpS₂</i>	MRMTVGHGIDIEELASIESAVTRHEGFAKRV.LTAEQEMERFTSLKGRRQIEYLAGR	
<i>Bacillus subtilis Sfp</i>PIGLDDEKTKPDS.....LEIAKRFFSKTEYSDLLAKDKDEQTDYFHL	
	103	
<i>S. pneumo SpAcpS₂</i>	SAKEAFSKAMGTGISKGLGFQDLEVLNNERGAPYFSQAPFSGKIWLSISHTDQFVTASVI.LEENHES	
<i>Bacillus subtilis Sfp</i>	EMKESRIKQESKGLSLPLDSFSVRHQ.DGOVSIELPDSHSPCYIKTYEVDPGYKMAVCAAHPDFPEDI	
	148	
<i>S. pneumo SpAcpS₂</i>	TMVSYEELL	
<i>Bacillus subtilis Sfp</i>	216	

PDB ID: 5H9Z

Table 2. Crystallographic data

	Inflection, L1	Peak, L2	Remote, L3	Native 1	*Native 2	*3'S'-ADP
Data collection						
Energy, eV	12,655.75	12,659.28	12,700.00	12,398.00	12,398.00	12,398.00
Wavelength λ , Å	0.979537	0.979400	0.976259	1.00000	1.00000	1.00000
Number of observations	210,097	205,948	211,823	336,325	423,425	304,946
Number of reflections	54,462	55,080	54,821	59,335	126,451	162,841
Number of unique reflections	8,450	8,508	8,398	14,842	20,366	29,541
Average redundancy	6.4	6.5	6.5	4.0	6.2	5.5
Completeness, %						
All reflections	95/90	95/88	94/88	96/84	94/89	100/99
Reflections with $I > 3\sigma$	94/85	94/86	94/84	81/57	79/53	80/44
$\langle I/\sigma \rangle$ overall	40/14	41/19	40/18	25.6/4.5	26.5/3.0	31.1/3.8
*R _{merge} , %	5.6/9.2	5.2/8.8	4.7/8.4	4.9/23.0	6.0/30.1	5.3/26.8
Resolution, Å	2.8	2.8	2.8	2.4	2.0	1.9
Refinement						
Protein/Water				2,696/128	2,730/125	2,717/177
Deviation from ideal geometry						
bond length, Å / bond angles, °				0.007/1.169	0.005/1.057	0.010/1.146
dihedrals / impropers, °				25.956/0.588	23.123/0.610	22.247/0.770
Ramachandran plot statistics						
Residues in most favorite / allowed regions, %				92.0/8.0	91.2/9.0	92.4/7.6
†R _{work} /†R _{free} , %				23.6/29.3	20.8/24.7	24.1/27.1

aData after slash sign correspond to outer shell

*R_{merge} = $\sum |I - \langle I \rangle| / \sum I$, where I is the intensity of an individual measurement, and $\langle I \rangle$ is the mean intensity of this reflection†R_{free} is the cross-validation R-value calculated for 5% of the reflections omitted from the refinement.†R_{work} = $\sum |F_o - F_c| / \sum |F_o|$, where $|F_o|$ and $|F_c|$ are the observed and calculated structure factor amplitudes respectively.*Space group for these data sets is monoclinic C2, the rest of the data sets belong to orthorhombic P2₁2₁2₁ space group. Both of them contain one homotrimer per the asymmetric unit

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ATOM	1	CB	MET	A1003	6.910	33.184	39.062	1.00	31.51	C
ATOM	2	CG	MET	A1003	5.553	33.663	38.598	1.00	33.32	C
ATOM	3	SD	MET	A1003	4.818	34.801	39.816	1.00	36.27	S
ATOM	4	CE	MET	A1003	5.820	36.290	39.557	1.00	35.34	C
ATOM	5	C	MET	A1003	7.655	32.931	36.686	1.00	29.56	C
ATOM	6	O	MET	A1003	8.286	33.972	36.449	1.00	29.16	O
ATOM	7	N	MET	A1003	9.076	32.131	38.552	1.00	30.78	N
ATOM	8	CA	MET	A1003	7.675	32.305	38.074	1.00	30.32	C
ATOM	9	N	ILE	A1004	6.935	32.292	35.768	1.00	28.43	N
ATOM	10	CA	ILE	A1004	6.826	32.791	34.401	1.00	27.65	C
ATOM	11	CB	ILE	A1004	6.307	31.701	33.452	1.00	28.01	C
ATOM	12	CG2	ILE	A1004	6.103	32.287	32.051	1.00	27.49	C
ATOM	13	CG1	ILE	A1004	7.294	30.525	33.430	1.00	27.59	C
ATOM	14	CD1	ILE	A1004	6.890	29.404	32.482	1.00	28.22	C
ATOM	15	C	ILE	A1004	5.885	33.992	34.322	1.00	26.94	C
ATOM	16	O	ILE	A1004	4.741	33.920	34.765	1.00	26.43	O
ATOM	17	N	VAL	A1005	6.380	35.088	33.750	1.00	25.94	N
ATOM	18	CA	VAL	A1005	5.595	36.306	33.617	1.00	25.33	C
ATOM	19	CB	VAL	A1005	6.211	37.446	34.445	1.00	25.03	C

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ATOM	20	CG1	VAL	A1005	6.389	36.995	35.882	1.00	25.00	
ATOM	21	CG2	VAL	A1005	7.535	37.878	33.846	1.00	24.19	C
ATOM	22	C	VAL	A1005	5.432	36.796	32.173	1.00	25.45	C
ATOM	23	O	VAL	A1005	4.982	37.920	31.949	1.00	25.63	C
ATOM	24	N	GLY	A1006	5.794	35.964	31.197	1.00	25.11	O
ATOM	25	CA	GLY	A1006	5.659	36.371	29.809	1.00	24.32	N
ATOM	26	C	GLY	A1006	6.306	35.452	28.786	1.00	23.99	C
ATOM	27	O	GLY	A1006	7.413	34.947	28.996	1.00	24.03	C
ATOM	28	N	HIS	A1007	5.613	35.232	27.671	1.00	23.11	O
ATOM	29	CA	HIS	A1007	6.132	34.386	26.603	1.00	22.22	N
ATOM	30	CB	HIS	A1007	5.633	32.943	26.789	1.00	22.37	C
ATOM	31	CG	HIS	A1007	6.046	32.010	25.693	1.00	22.55	C
ATOM	32	CD2	HIS	A1007	5.331	31.123	24.961	1.00	22.89	C
ATOM	33	ND1	HIS	A1007	7.342	31.933	25.226	1.00	22.71	N
ATOM	34	CE1	HIS	A1007	7.405	31.044	24.251	1.00	22.72	C
ATOM	35	NE2	HIS	A1007	6.198	30.537	24.070	1.00	22.98	N
ATOM	36	C	HIS	A1007	5.718	34.925	25.234	1.00	21.79	C
ATOM	37	O	HIS	A1007	4.553	35.230	25.007	1.00	21.69	O
ATOM	38	N	GLY	A1008	6.682	35.054	24.325	1.00	21.62	N
ATOM	39	CA	GLY	A1008	6.380	35.549	22.994	1.00	20.43	C
ATOM	40	C	GLY	A1008	7.237	34.888	21.932	1.00	20.87	C
ATOM	41	O	GLY	A1008	8.396	34.554	22.171	1.00	20.58	O
ATOM	42	N	ILE	A1009	6.655	34.663	20.760	1.00	20.92	N
ATOM	43	CA	ILE	A1009	7.389	34.077	19.652	1.00	21.06	C
ATOM	44	CB	ILE	A1009	6.911	32.638	19.304	1.00	21.27	C
ATOM	45	CG2	ILE	A1009	7.140	31.699	20.485	1.00	21.48	C
ATOM	46	CG1	ILE	A1009	5.438	32.654	18.892	1.00	21.01	C
ATOM	47	CD1	ILE	A1009	4.967	31.340	18.285	1.00	20.98	C
ATOM	48	C	ILE	A1009	7.184	34.951	18.420	1.00	21.74	C
ATOM	49	O	ILE	A1009	6.345	35.846	18.404	1.00	20.69	O
ATOM	50	N	ASP	A1010	7.971	34.687	17.388	1.00	22.85	N
ATOM	51	CA	ASP	A1010	7.857	35.416	16.147	1.00	23.91	C
ATOM	52	CB	ASP	A1010	8.456	36.813	16.273	1.00	23.93	C
ATOM	53	CG	ASP	A1010	8.300	37.622	14.998	1.00	24.40	C
ATOM	54	OD1	ASP	A1010	9.104	37.423	14.050	1.00	24.86	O
ATOM	55	OD2	ASP	A1010	7.357	38.442	14.939	1.00	24.36	O
ATOM	56	C	ASP	A1010	8.553	34.658	15.041	1.00	24.83	C
ATOM	57	O	ASP	A1010	9.586	34.037	15.262	1.00	25.16	O
ATOM	58	N	ILE	A1011	7.959	34.687	13.852	1.00	25.82	N
ATOM	59	CA	ILE	A1011	8.541	34.021	12.697	1.00	27.04	C
ATOM	60	CB	ILE	A1011	7.713	32.780	12.258	1.00	26.91	C
ATOM	61	CG2	ILE	A1011	6.274	33.168	11.940	1.00	26.65	C
ATOM	62	CG1	ILE	A1011	8.378	32.126	11.048	1.00	27.05	C
ATOM	63	CD1	ILE	A1011	7.818	30.757	10.708	1.00	27.44	C
ATOM	64	C	ILE	A1011	8.586	35.051	11.580	1.00	27.96	C
ATOM	65	O	ILE	A1011	7.652	35.832	11.404	1.00	28.18	O
ATOM	66	N	GLU	A1012	9.688	35.070	10.845	1.00	28.86	N
ATOM	67	CA	GLU	A1012	9.841	36.023	9.762	1.00	30.03	C
ATOM	68	CB	GLU	A1012	10.772	37.161	10.186	1.00	31.54	C
ATOM	69	CG	GLU	A1012	10.071	38.292	10.895	1.00	33.83	C
ATOM	70	CD	GLU	A1012	9.006	38.913	10.026	1.00	35.22	C
ATOM	71	OE1	GLU	A1012	9.352	39.404	8.927	1.00	36.13	O
ATOM	72	OE2	GLU	A1012	7.825	38.903	10.438	1.00	36.10	O
ATOM	73	C	GLU	A1012	10.375	35.414	8.487	1.00	29.94	C
ATOM	74	O	GLU	A1012	11.219	34.526	8.513	1.00	29.44	O
ATOM	75	N	GLU	A1013	9.864	35.901	7.367	1.00	30.50	N
ATOM	76	CA	GLU	A1013	10.331	35.444	6.069	1.00	30.96	C

ATOM	77	CB	GLU	A1013	9.236	35.587	5.012	1.00	31.74	C
ATOM	78	CG	GLU	A1013	9.629	34.951	3.693	1.00	33.86	C
ATOM	79	CD	GLU	A1013	8.621	35.179	2.582	1.00	35.01	C
ATOM	80	OE1	GLU	A1013	8.792	34.550	1.515	1.00	36.28	O
ATOM	81	OE2	GLU	A1013	7.675	35.980	2.762	1.00	35.21	O
ATOM	82	C	GLU	A1013	11.498	36.372	5.735	1.00	30.42	C
ATOM	83	O	GLU	A1013	11.348	37.594	5.750	1.00	30.06	O
ATOM	84	N	LEU	A1014	12.662	35.800	5.457	1.00	30.14	N
ATOM	85	CA	LEU	A1014	13.824	36.617	5.140	1.00	30.32	C
ATOM	86	CB	LEU	A1014	15.022	35.722	4.814	1.00	30.23	C
ATOM	87	CG	LEU	A1014	15.552	34.904	6.000	1.00	30.34	C
ATOM	88	CD1	LEU	A1014	16.618	33.929	5.533	1.00	30.59	C
ATOM	89	CD2	LEU	A1014	16.117	35.835	7.053	1.00	30.41	C
ATOM	90	C	LEU	A1014	13.526	37.563	3.977	1.00	30.65	C
ATOM	91	O	LEU	A1014	13.877	38.743	4.023	1.00	30.37	O
ATOM	92	N	ALA	A1015	12.857	37.048	2.949	1.00	30.96	N
ATOM	93	CA	ALA	A1015	12.519	37.855	1.784	1.00	31.57	C
ATOM	94	CB	ALA	A1015	11.683	37.038	0.798	1.00	30.98	C
ATOM	95	C	ALA	A1015	11.780	39.131	2.183	1.00	31.93	C
ATOM	96	O	ALA	A1015	11.947	40.170	1.544	1.00	31.75	O
ATOM	97	N	SER	A1016	10.972	39.055	3.240	1.00	32.40	N
ATOM	98	CA	SER	A1016	10.227	40.224	3.714	1.00	33.29	C
ATOM	99	CB	SER	A1016	9.264	39.844	4.847	1.00	33.61	C
ATOM	100	OG	SER	A1016	8.316	38.883	4.428	1.00	34.88	O
ATOM	101	C	SER	A1016	11.194	41.279	4.235	1.00	33.73	C
ATOM	102	O	SER	A1016	11.059	42.464	3.937	1.00	33.37	O
ATOM	103	N	ILE	A1017	12.156	40.828	5.035	1.00	34.48	N
ATOM	104	CA	ILE	A1017	13.167	41.698	5.615	1.00	35.17	C
ATOM	105	CB	ILE	A1017	14.041	40.922	6.641	1.00	34.97	C
ATOM	106	CG2	ILE	A1017	15.151	41.814	7.173	1.00	34.62	C
ATOM	107	CG1	ILE	A1017	13.172	40.436	7.805	1.00	35.03	C
ATOM	108	CD1	ILE	A1017	12.550	41.555	8.623	1.00	34.83	C
ATOM	109	C	ILE	A1017	14.064	42.266	4.516	1.00	35.70	C
ATOM	110	O	ILE	A1017	14.435	43.439	4.555	1.00	35.49	O
ATOM	111	N	GLU	A1018	14.414	41.431	3.542	1.00	36.59	N
ATOM	112	CA	GLU	A1018	15.260	41.872	2.439	1.00	38.02	C
ATOM	113	CB	GLU	A1018	15.595	40.703	1.508	1.00	39.36	C
ATOM	114	CG	GLU	A1018	16.768	40.993	0.578	1.00	42.30	C
ATOM	115	CD	GLU	A1018	16.928	39.967	-0.532	1.00	44.15	C
ATOM	116	OE1	GLU	A1018	16.923	38.748	-0.239	1.00	45.23	O
ATOM	117	OE2	GLU	A1018	17.069	40.387	-1.703	1.00	45.34	O
ATOM	118	C	GLU	A1018	14.480	42.925	1.658	1.00	38.06	C
ATOM	119	O	GLU	A1018	15.026	43.936	1.212	1.00	37.81	O
ATOM	120	N	SER	A1019	13.187	42.668	1.509	1.00	37.94	N
ATOM	121	CA	SER	A1019	12.297	43.561	0.799	1.00	37.74	C
ATOM	122	CB	SER	A1019	10.921	42.906	0.680	1.00	37.89	C
ATOM	123	OG	SER	A1019	9.994	43.764	0.044	1.00	38.96	O
ATOM	124	C	SER	A1019	12.182	44.916	1.505	1.00	37.72	C
ATOM	125	O	SER	A1019	12.074	45.957	0.850	1.00	37.89	O
ATOM	126	N	ALA	A1020	12.207	44.902	2.836	1.00	37.14	N
ATOM	127	CA	ALA	A1020	12.097	46.129	3.615	1.00	37.01	C
ATOM	128	CB	ALA	A1020	11.773	45.800	5.063	1.00	36.69	C
ATOM	129	C	ALA	A1020	13.369	46.973	3.542	1.00	37.03	C
ATOM	130	O	ALA	A1020	13.309	48.201	3.538	1.00	36.27	O
ATOM	131	N	VAL	A1021	14.519	46.309	3.497	1.00	37.47	N
ATOM	132	CA	VAL	A1021	15.797	47.007	3.415	1.00	38.34	C
ATOM	133	CB	VAL	A1021	16.979	46.047	3.651	1.00	37.99	C

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ATOM	134	CG1	VAL	A1021	18.282	46.740	3.316	1.00	38.47	C
ATOM	135	CG2	VAL	A1021	16.990	45.585	5.093	1.00	38.14	C
ATOM	136	C	VAL	A1021	15.937	47.605	2.025	1.00	38.86	C
ATOM	137	O	VAL	A1021	16.345	48.749	1.855	1.00	38.89	O
ATOM	138	N	THR	A1022	15.586	46.810	1.029	1.00	39.74	N
ATOM	139	CA	THR	A1022	15.670	47.244	-0.350	1.00	40.51	C
ATOM	140	CB	THR	A1022	15.220	46.117	-1.300	1.00	40.54	C
ATOM	141	OG1	THR	A1022	15.975	44.930	-1.019	1.00	40.47	O
ATOM	142	CG2	THR	A1022	15.442	46.525	-2.753	1.00	41.07	C
ATOM	143	C	THR	A1022	14.795	48.472	-0.579	1.00	40.85	C
ATOM	144	O	THR	A1022	15.227	49.433	-1.204	1.00	41.01	O
ATOM	145	N	ARG	A1023	13.577	48.442	-0.048	1.00	41.28	N
ATOM	146	CA	ARG	A1023	12.626	49.541	-0.215	1.00	41.51	C
ATOM	147	CB	ARG	A1023	11.198	49.003	-0.083	1.00	41.55	C
ATOM	148	CG	ARG	A1023	10.804	48.042	-1.201	1.00	42.10	C
ATOM	149	CD	ARG	A1023	9.460	47.375	-0.938	1.00	42.16	C
ATOM	150	NE	ARG	A1023	8.439	48.328	-0.514	0.05	42.12	N
ATOM	151	CZ	ARG	A1023	7.158	48.021	-0.344	0.05	42.14	C
ATOM	152	NH1	ARG	A1023	6.734	46.785	-0.567	0.05	42.17	N
ATOM	153	NH2	ARG	A1023	6.300	48.947	0.061	0.05	42.16	N
ATOM	154	C	ARG	A1023	12.798	50.747	0.710	1.00	41.61	C
ATOM	155	O	ARG	A1023	12.396	51.851	0.363	1.00	41.34	O
ATOM	156	N	HIS	A1024	13.395	50.544	1.878	1.00	42.27	N
ATOM	157	CA	HIS	A1024	13.583	51.636	2.835	1.00	42.70	C
ATOM	158	CB	HIS	A1024	12.658	51.445	4.040	0.05	42.61	C
ATOM	159	CG	HIS	A1024	11.202	51.471	3.693	0.05	42.54	C
ATOM	160	CD2	HIS	A1024	10.233	50.537	3.841	0.05	42.53	C
ATOM	161	ND1	HIS	A1024	10.592	52.567	3.121	0.05	42.51	N
ATOM	162	CE1	HIS	A1024	9.311	52.307	2.932	0.05	42.49	C
ATOM	163	NE2	HIS	A1024	9.067	51.081	3.360	0.05	42.48	N
ATOM	164	C	HIS	A1024	15.028	51.727	3.307	1.00	43.14	C
ATOM	165	O	HIS	A1024	15.483	50.930	4.131	1.00	43.24	O
ATOM	166	N	GLU	A1025	15.732	52.722	2.782	1.00	43.47	N
ATOM	167	CA	GLU	A1025	17.139	52.963	3.089	1.00	43.74	C
ATOM	168	CB	GLU	A1025	17.596	54.249	2.393	1.00	44.50	C
ATOM	169	CG	GLU	A1025	17.396	54.230	0.888	1.00	45.87	C
ATOM	170	CD	GLU	A1025	18.031	55.420	0.208	1.00	46.86	C
ATOM	171	OE1	GLU	A1025	19.267	55.571	0.320	1.00	47.25	O
ATOM	172	OE2	GLU	A1025	17.294	56.201	-0.434	1.00	47.49	O
ATOM	173	C	GLU	A1025	17.539	53.030	4.565	1.00	43.28	C
ATOM	174	O	GLU	A1025	18.655	52.645	4.912	1.00	43.56	O
ATOM	175	N	GLY	A1026	16.649	53.523	5.424	1.00	42.64	N
ATOM	176	CA	GLY	A1026	16.972	53.631	6.838	1.00	41.75	C
ATOM	177	C	GLY	A1026	16.244	52.645	7.731	1.00	41.40	C
ATOM	178	O	GLY	A1026	16.091	52.877	8.931	1.00	41.35	O
ATOM	179	N	PHE	A1027	15.801	51.537	7.144	1.00	40.74	N
ATOM	180	CA	PHE	A1027	15.077	50.500	7.871	1.00	39.69	C
ATOM	181	CB	PHE	A1027	14.695	49.376	6.906	1.00	39.76	C
ATOM	182	CG	PHE	A1027	13.976	48.233	7.558	1.00	40.05	C
ATOM	183	CD1	PHE	A1027	12.654	48.369	7.978	1.00	40.03	C
ATOM	184	CD2	PHE	A1027	14.618	47.012	7.748	1.00	39.83	C
ATOM	185	CE1	PHE	A1027	11.982	47.301	8.576	1.00	39.93	C
ATOM	186	CE2	PHE	A1027	13.955	45.944	8.344	1.00	39.71	C
ATOM	187	CZ	PHE	A1027	12.636	46.089	8.757	1.00	39.70	C
ATOM	188	C	PHE	A1027	15.900	49.920	9.020	1.00	39.08	C
ATOM	189	O	PHE	A1027	15.470	49.929	10.175	1.00	38.67	O
ATOM	190	N	ALA	A1028	17.080	49.409	8.682	1.00	38.48	N

ATOM	191	CA	ALA	A1028	17.980	48.811	9.656	1.00	38.36	C
ATOM	192	CB	ALA	A1028	19.242	48.321	8.960	1.00	37.96	C
ATOM	193	C	ALA	A1028	18.349	49.784	10.764	1.00	38.25	C
ATOM	194	O	ALA	A1028	18.533	49.384	11.907	1.00	38.15	O
ATOM	195	N	LYS	A1029	18.456	51.061	10.418	1.00	38.38	N
ATOM	196	CA	LYS	A1029	18.823	52.094	11.380	1.00	38.44	C
ATOM	197	CB	LYS	A1029	19.154	53.391	10.636	1.00	39.34	C
ATOM	198	CG	LYS	A1029	19.997	54.393	11.411	1.00	40.55	C
ATOM	199	CD	LYS	A1029	19.248	55.005	12.591	1.00	41.77	C
ATOM	200	CE	LYS	A1029	20.043	56.146	13.215	1.00	41.81	C
ATOM	201	NZ	LYS	A1029	20.282	57.218	12.208	1.00	42.20	N
ATOM	202	C	LYS	A1029	17.703	52.331	12.386	1.00	37.98	C
ATOM	203	O	LYS	A1029	17.948	52.731	13.522	1.00	38.26	O
ATOM	204	N	ARG	A1030	16.470	52.084	11.969	1.00	37.55	N
ATOM	205	CA	ARG	A1030	15.330	52.267	12.856	1.00	37.18	C
ATOM	206	CB	ARG	A1030	14.050	52.489	12.040	1.00	38.15	C
ATOM	207	CG	ARG	A1030	13.833	53.934	11.573	1.00	39.87	C
ATOM	208	CD	ARG	A1030	12.449	54.110	10.937	1.00	40.62	C
ATOM	209	NE	ARG	A1030	12.383	53.532	9.598	1.00	41.54	N
ATOM	210	CZ	ARG	A1030	12.825	54.142	8.500	1.00	42.11	C
ATOM	211	NH1	ARG	A1030	13.359	55.355	8.577	1.00	41.94	N
ATOM	212	NH2	ARG	A1030	12.747	53.533	7.323	1.00	42.66	N
ATOM	213	C	ARG	A1030	15.145	51.064	13.780	1.00	36.44	C
ATOM	214	O	ARG	A1030	14.650	51.202	14.900	1.00	36.62	O
ATOM	215	N	VAL	A1031	15.560	49.889	13.313	1.00	35.30	N
ATOM	216	CA	VAL	A1031	15.417	48.655	14.080	1.00	34.12	C
ATOM	217	CB	VAL	A1031	15.160	47.458	13.145	1.00	34.29	C
ATOM	218	CG1	VAL	A1031	14.965	46.190	13.963	1.00	34.93	C
ATOM	219	CG2	VAL	A1031	13.949	47.723	12.279	1.00	34.77	C
ATOM	220	C	VAL	A1031	16.615	48.300	14.960	1.00	33.18	C
ATOM	221	O	VAL	A1031	16.447	47.763	16.057	1.00	33.04	O
ATOM	222	N	LEU	A1032	17.818	48.595	14.482	1.00	31.96	N
ATOM	223	CA	LEU	A1032	19.026	48.264	15.226	1.00	31.28	C
ATOM	224	CB	LEU	A1032	20.081	47.692	14.274	1.00	30.83	C
ATOM	225	CG	LEU	A1032	19.665	46.475	13.438	1.00	30.70	C
ATOM	226	CD1	LEU	A1032	20.852	46.007	12.608	1.00	30.16	C
ATOM	227	CD2	LEU	A1032	19.172	45.351	14.349	1.00	30.17	C
ATOM	228	C	LEU	A1032	19.634	49.422	16.005	1.00	30.91	C
ATOM	229	O	LEU	A1032	19.534	50.578	15.602	1.00	31.10	O
ATOM	230	N	THR	A1033	20.262	49.095	17.129	1.00	30.41	N
ATOM	231	CA	THR	A1033	20.918	50.094	17.960	1.00	29.93	C
ATOM	232	CB	THR	A1033	21.113	49.605	19.410	1.00	29.26	C
ATOM	233	OG1	THR	A1033	22.084	48.552	19.438	1.00	28.24	O
ATOM	234	CG2	THR	A1033	19.800	49.097	19.980	1.00	29.31	C
ATOM	235	C	THR	A1033	22.291	50.334	17.339	1.00	30.14	C
ATOM	236	O	THR	A1033	22.678	49.633	16.405	1.00	29.45	O
ATOM	237	N	ALA	A1034	23.018	51.321	17.856	1.00	30.49	N
ATOM	238	CA	ALA	A1034	24.344	51.638	17.339	1.00	31.05	C
ATOM	239	CB	ALA	A1034	24.987	52.734	18.177	1.00	30.92	C
ATOM	240	C	ALA	A1034	25.211	50.388	17.356	1.00	31.28	C
ATOM	241	O	ALA	A1034	25.837	50.047	16.357	1.00	31.20	O
ATOM	242	N	LEU	A1035	25.241	49.706	18.495	1.00	31.90	N
ATOM	243	CA	LEU	A1035	26.030	48.487	18.619	1.00	32.66	C
ATOM	244	CB	LEU	A1035	25.878	47.907	20.031	1.00	32.74	C
ATOM	245	CG	LEU	A1035	26.464	48.733	21.195	1.00	32.90	C
ATOM	246	CD1	LEU	A1035	26.003	48.158	22.529	1.00	32.38	C
ATOM	247	CD2	LEU	A1035	27.985	48.737	21.121	1.00	32.56	C

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ATOM	248	C	LEU	A1035	25.612	47.454	17.556	1.00	33.36	C
ATOM	249	O	LEU	A1035	26.442	46.992	16.769	1.00	33.53	O
ATOM	250	N	GLU	A1036	24.328	47.104	17.526	1.00	33.64	N
ATOM	251	CA	GLU	A1036	23.822	46.140	16.555	1.00	34.14	C
ATOM	252	CB	GLU	A1036	22.299	46.014	16.682	1.00	33.87	C
ATOM	253	CG	GLU	A1036	21.818	45.217	17.890	1.00	33.65	C
ATOM	254	CD	GLU	A1036	20.341	45.462	18.216	1.00	33.37	C
ATOM	255	OE1	GLU	A1036	19.726	44.613	18.895	1.00	32.88	O
ATOM	256	OE2	GLU	A1036	19.797	46.509	17.808	1.00	33.01	O
ATOM	257	C	GLU	A1036	24.188	46.573	15.137	1.00	34.85	C
ATOM	258	O	GLU	A1036	24.526	45.752	14.284	1.00	34.59	O
ATOM	259	N	MET	A1037	24.120	47.875	14.893	1.00	35.84	N
ATOM	260	CA	MET	A1037	24.436	48.433	13.585	1.00	37.02	C
ATOM	261	CB	MET	A1037	24.172	49.936	13.605	1.00	37.11	C
ATOM	262	CG	MET	A1037	23.656	50.510	12.294	1.00	38.16	C
ATOM	263	SD	MET	A1037	22.148	49.717	11.685	1.00	38.53	S
ATOM	264	CE	MET	A1037	22.507	49.661	9.949	1.00	38.71	C
ATOM	265	C	MET	A1037	25.899	48.141	13.215	1.00	37.76	C
ATOM	266	O	MET	A1037	26.227	47.928	12.044	1.00	37.71	O
ATOM	267	N	GLU	A1038	26.774	48.117	14.217	1.00	38.51	N
ATOM	268	CA	GLU	A1038	28.183	47.835	13.977	1.00	39.30	C
ATOM	269	CB	GLU	A1038	28.989	47.966	15.275	1.00	40.38	C
ATOM	270	CG	GLU	A1038	28.963	49.369	15.880	1.00	41.32	C
ATOM	271	CD	GLU	A1038	29.874	49.513	17.086	1.00	42.00	C
ATOM	272	OE1	GLU	A1038	29.789	50.553	17.771	1.00	42.33	O
ATOM	273	OE2	GLU	A1038	30.677	48.592	17.349	1.00	42.44	O
ATOM	274	C	GLU	A1038	28.349	46.436	13.395	1.00	39.50	C
ATOM	275	O	GLU	A1038	28.932	46.272	12.327	1.00	40.05	O
ATOM	276	N	ARG	A1039	27.837	45.423	14.087	1.00	39.36	N
ATOM	277	CA	ARG	A1039	27.945	44.063	13.577	1.00	39.25	C
ATOM	278	CB	ARG	A1039	27.347	43.053	14.563	1.00	39.62	C
ATOM	279	CG	ARG	A1039	27.395	41.632	14.025	1.00	40.25	C
ATOM	280	CD	ARG	A1039	27.177	40.585	15.089	1.00	40.85	C
ATOM	281	NE	ARG	A1039	27.251	39.243	14.516	1.00	41.68	N
ATOM	282	CZ	ARG	A1039	28.314	38.756	13.879	1.00	42.00	C
ATOM	283	NH1	ARG	A1039	28.289	37.523	13.387	1.00	42.01	N
ATOM	284	NH2	ARG	A1039	29.408	39.496	13.735	1.00	41.92	N
ATOM	285	C	ARG	A1039	27.241	43.938	12.228	1.00	39.03	C
ATOM	286	O	ARG	A1039	27.774	43.347	11.291	1.00	38.64	O
ATOM	287	N	PHE	A1040	26.040	44.502	12.136	1.00	39.10	N
ATOM	288	CA	PHE	A1040	25.255	44.464	10.901	1.00	39.18	C
ATOM	289	CB	PHE	A1040	24.030	45.369	11.036	1.00	38.05	C
ATOM	290	CG	PHE	A1040	23.268	45.560	9.754	1.00	37.43	C
ATOM	291	CD1	PHE	A1040	22.443	44.557	9.258	1.00	37.16	C
ATOM	292	CD2	PHE	A1040	23.365	46.752	9.045	1.00	37.16	C
ATOM	293	CE1	PHE	A1040	21.722	44.742	8.074	1.00	36.76	C
ATOM	294	CE2	PHE	A1040	22.649	46.946	7.863	1.00	36.76	C
ATOM	295	CZ	PHE	A1040	21.825	45.936	7.379	1.00	36.61	C
ATOM	296	C	PHE	A1040	26.063	44.910	9.682	1.00	39.84	C
ATOM	297	O	PHE	A1040	26.157	44.190	8.682	1.00	39.67	O
ATOM	298	N	THR	A1041	26.643	46.104	9.774	1.00	40.57	N
ATOM	299	CA	THR	A1041	27.415	46.668	8.676	1.00	41.24	C
ATOM	300	CB	THR	A1041	27.726	48.138	8.938	1.00	41.14	C
ATOM	301	OG1	THR	A1041	28.364	48.272	10.212	1.00	41.93	O
ATOM	302	CG2	THR	A1041	26.446	48.948	8.933	1.00	40.95	C
ATOM	303	C	THR	A1041	28.708	45.931	8.353	1.00	41.72	C
ATOM	304	O	THR	A1041	29.251	46.080	7.259	1.00	41.99	O

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ATOM	305	N	SER	A1042	29.198	45.133	9.297	1.00	42.15	N
ATOM	306	CA	SER	A1042	30.419	44.367	9.078	1.00	42.65	C
ATOM	307	CB	SER	A1042	31.106	44.057	10.407	1.00	42.64	C
ATOM	308	OG	SER	A1042	30.642	42.828	10.934	1.00	43.03	O
ATOM	309	C	SER	A1042	30.066	43.050	8.381	1.00	43.22	C
ATOM	310	O	SER	A1042	30.937	42.218	8.118	1.00	43.14	O
ATOM	311	N	LEU	A1043	28.781	42.869	8.095	1.00	43.80	N
ATOM	312	CA	LEU	A1043	28.298	41.660	7.439	1.00	44.32	C
ATOM	313	CB	LEU	A1043	27.151	41.040	8.247	1.00	43.98	C
ATOM	314	CG	LEU	A1043	27.491	40.512	9.642	1.00	43.88	C
ATOM	315	CD1	LEU	A1043	26.219	40.165	10.388	1.00	43.76	C
ATOM	316	CD2	LEU	A1043	28.383	39.294	9.521	1.00	44.03	C
ATOM	317	C	LEU	A1043	27.821	41.973	6.026	1.00	44.90	C
ATOM	318	O	LEU	A1043	27.448	43.110	5.722	1.00	44.88	O
ATOM	319	N	LYS	A1044	27.827	40.950	5.174	1.00	45.38	N
ATOM	320	CA	LYS	A1044	27.412	41.088	3.782	1.00	45.95	C
ATOM	321	CB	LYS	A1044	28.556	40.673	2.856	1.00	46.91	C
ATOM	322	CG	LYS	A1044	28.976	39.209	3.060	1.00	47.97	C
ATOM	323	CD	LYS	A1044	29.803	38.669	1.896	1.00	48.98	C
ATOM	324	CE	LYS	A1044	30.319	37.260	2.187	1.00	49.35	C
ATOM	325	NZ	LYS	A1044	29.216	36.313	2.505	1.00	49.24	N
ATOM	326	C	LYS	A1044	26.202	40.217	3.457	1.00	45.75	C
ATOM	327	O	LYS	A1044	25.779	39.391	4.266	1.00	46.06	O
ATOM	328	N	GLY	A1045	25.674	40.416	2.252	1.00	45.39	N
ATOM	329	CA	GLY	A1045	24.538	39.663	1.743	1.00	44.96	C
ATOM	330	C	GLY	A1045	23.577	38.960	2.685	1.00	44.52	C
ATOM	331	O	GLY	A1045	23.147	39.520	3.692	1.00	44.43	O
ATOM	332	N	ARG	A1046	23.231	37.726	2.333	1.00	44.21	N
ATOM	333	CA	ARG	A1046	22.297	36.917	3.112	1.00	43.89	C
ATOM	334	CB	ARG	A1046	22.304	35.474	2.589	1.00	44.58	C
ATOM	335	CG	ARG	A1046	21.962	35.399	1.099	1.00	46.46	C
ATOM	336	CD	ARG	A1046	21.891	33.977	0.547	1.00	47.97	C
ATOM	337	NE	ARG	A1046	20.698	33.253	0.979	1.00	49.25	N
ATOM	338	CZ	ARG	A1046	20.360	32.043	0.538	1.00	49.83	C
ATOM	339	NH1	ARG	A1046	19.257	31.454	0.983	1.00	49.98	N
ATOM	340	NH2	ARG	A1046	21.123	31.420	-0.352	1.00	49.87	N
ATOM	341	C	ARG	A1046	22.572	36.951	4.609	1.00	43.05	C
ATOM	342	O	ARG	A1046	21.657	37.167	5.402	1.00	42.92	O
ATOM	343	N	ARG	A1047	23.830	36.751	4.994	1.00	42.04	N
ATOM	344	CA	ARG	A1047	24.212	36.775	6.401	1.00	40.92	C
ATOM	345	CB	ARG	A1047	25.726	36.592	6.553	1.00	41.86	C
ATOM	346	CG	ARG	A1047	26.196	35.146	6.581	1.00	43.21	C
ATOM	347	CD	ARG	A1047	27.613	35.070	7.134	1.00	44.61	C
ATOM	348	NE	ARG	A1047	28.023	33.709	7.475	1.00	45.70	N
ATOM	349	CZ	ARG	A1047	28.346	32.773	6.588	1.00	46.26	C
ATOM	350	NH1	ARG	A1047	28.705	31.565	7.004	1.00	46.85	N
ATOM	351	NH2	ARG	A1047	28.318	33.042	5.289	1.00	46.67	N
ATOM	352	C	ARG	A1047	23.800	38.082	7.074	1.00	39.44	C
ATOM	353	O	ARG	A1047	23.397	38.100	8.236	1.00	38.89	O
ATOM	354	N	GLN	A1048	23.914	39.178	6.338	1.00	37.81	N
ATOM	355	CA	GLN	A1048	23.550	40.475	6.871	1.00	36.41	C
ATOM	356	CB	GLN	A1048	24.011	41.576	5.920	1.00	36.74	C
ATOM	357	CG	GLN	A1048	24.106	42.940	6.565	1.00	37.57	C
ATOM	358	CD	GLN	A1048	24.476	44.024	5.578	1.00	38.09	C
ATOM	359	OE1	GLN	A1048	24.860	45.132	5.965	1.00	38.67	O
ATOM	360	NE2	GLN	A1048	24.351	43.717	4.295	1.00	38.03	N
ATOM	361	C	GLN	A1048	22.037	40.561	7.074	1.00	35.21	C

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ATOM	362	O	GLN A1048	21.567	41.201	8.015	1.00	34.68	O
ATOM	363	N	ILE A1049	21.279	39.919	6.189	1.00	33.75	N
ATOM	364	CA	ILE A1049	19.826	39.934	6.295	1.00	32.76	C
ATOM	365	CB	ILE A1049	19.146	39.436	4.987	1.00	32.88	C
ATOM	366	CG2	ILE A1049	17.628	39.437	5.153	1.00	32.63	C
ATOM	367	CG1	ILE A1049	19.536	40.333	3.808	1.00	32.63	C
ATOM	368	CD1	ILE A1049	19.070	41.776	3.930	1.00	32.59	C
ATOM	369	C	ILE A1049	19.366	39.062	7.466	1.00	31.99	C
ATOM	370	O	ILE A1049	18.480	39.456	8.223	1.00	31.76	O
ATOM	371	N	GLU A1050	19.964	37.883	7.611	1.00	31.37	N
ATOM	372	CA	GLU A1050	19.610	36.982	8.707	1.00	31.34	C
ATOM	373	CB	GLU A1050	20.362	35.648	8.591	1.00	32.61	C
ATOM	374	CG	GLU A1050	20.706	34.980	9.944	1.00	36.11	C
ATOM	375	CD	GLU A1050	19.482	34.642	10.819	1.00	37.78	C
ATOM	376	OE1	GLU A1050	19.674	34.340	12.024	1.00	39.05	O
ATOM	377	OE2	GLU A1050	18.339	34.671	10.311	1.00	38.44	O
ATOM	378	C	GLU A1050	19.929	37.642	10.047	1.00	30.27	C
ATOM	379	O	GLU A1050	19.172	37.494	11.014	1.00	30.09	O
ATOM	380	N	TYR A1051	21.041	38.372	10.107	1.00	28.49	N
ATOM	381	CA	TYR A1051	21.398	39.040	11.343	1.00	27.23	C
ATOM	382	CB	TYR A1051	22.747	39.750	11.244	1.00	26.82	C
ATOM	383	CG	TYR A1051	23.032	40.565	12.484	1.00	26.72	C
ATOM	384	CD1	TYR A1051	22.657	41.906	12.569	1.00	26.89	C
ATOM	385	CE1	TYR A1051	22.830	42.627	13.750	1.00	26.37	C
ATOM	386	CD2	TYR A1051	23.590	39.970	13.612	1.00	26.66	C
ATOM	387	CE2	TYR A1051	23.761	40.676	14.786	1.00	26.28	C
ATOM	388	CZ	TYR A1051	23.381	42.000	14.852	1.00	26.29	C
ATOM	389	OH	TYR A1051	23.554	42.688	16.031	1.00	26.92	O
ATOM	390	C	TYR A1051	20.332	40.069	11.670	1.00	26.31	C
ATOM	391	O	TYR A1051	19.893	40.189	12.811	1.00	25.81	O
ATOM	392	N	LEU A1052	19.927	40.812	10.650	1.00	25.22	N
ATOM	393	CA	LEU A1052	18.923	41.845	10.809	1.00	24.40	C
ATOM	394	CB	LEU A1052	18.854	42.685	9.532	1.00	24.44	C
ATOM	395	CG	LEU A1052	17.719	43.703	9.465	1.00	25.24	C
ATOM	396	CD1	LEU A1052	17.904	44.780	10.533	1.00	24.85	C
ATOM	397	CD2	LEU A1052	17.692	44.314	8.081	1.00	25.55	C
ATOM	398	C	LEU A1052	17.551	41.242	11.126	1.00	23.78	C
ATOM	399	O	LEU A1052	16.808	41.771	11.957	1.00	23.28	O
ATOM	400	N	ALA A1053	17.227	40.134	10.459	1.00	22.87	N
ATOM	401	CA	ALA A1053	15.948	39.459	10.655	1.00	22.13	C
ATOM	402	CB	ALA A1053	15.780	38.354	9.619	1.00	21.79	C
ATOM	403	C	ALA A1053	15.858	38.875	12.066	1.00	21.81	C
ATOM	404	O	ALA A1053	14.841	39.022	12.748	1.00	21.24	O
ATOM	405	N	GLY A1054	16.932	38.215	12.497	1.00	21.35	N
ATOM	406	CA	GLY A1054	16.953	37.624	13.819	1.00	20.95	C
ATOM	407	C	GLY A1054	16.707	38.649	14.910	1.00	20.80	C
ATOM	408	O	GLY A1054	15.890	38.428	15.803	1.00	20.64	O
ATOM	409	N	ARG A1055	17.419	39.769	14.845	1.00	20.73	N
ATOM	410	CA	ARG A1055	17.255	40.822	15.843	1.00	21.15	C
ATOM	411	CB	ARG A1055	18.254	41.959	15.586	1.00	20.76	C
ATOM	412	CG	ARG A1055	19.514	41.893	16.444	1.00	20.45	C
ATOM	413	CD	ARG A1055	20.238	40.562	16.281	1.00	20.93	C
ATOM	414	NE	ARG A1055	21.323	40.413	17.249	1.00	20.92	N
ATOM	415	CZ	ARG A1055	22.109	39.344	17.337	1.00	21.08	C
ATOM	416	NH1	ARG A1055	21.937	38.314	16.515	1.00	21.54	N
ATOM	417	NH2	ARG A1055	23.073	39.308	18.246	1.00	20.48	N
ATOM	418	C	ARG A1055	15.822	41.355	15.834	1.00	20.82	C

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ATOM	419	O	ARG	A1055	15.235	41.597	16.884	1.00	19.96	O
ATOM	420	N	TRP	A1056	15.272	41.535	14.638	1.00	21.33	N
ATOM	421	CA	TRP	A1056	13.907	42.018	14.481	1.00	21.83	C
ATOM	422	CB	TRP	A1056	13.597	42.252	12.995	1.00	23.26	C
ATOM	423	CG	TRP	A1056	12.117	42.342	12.688	1.00	25.60	C
ATOM	424	CD2	TRP	A1056	11.384	43.518	12.326	1.00	26.69	C
ATOM	425	CE2	TRP	A1056	10.026	43.140	12.186	1.00	27.05	C
ATOM	426	CE3	TRP	A1056	11.741	44.852	12.106	1.00	27.71	C
ATOM	427	CD1	TRP	A1056	11.199	41.324	12.745	1.00	26.25	C
ATOM	428	NE1	TRP	A1056	9.942	41.798	12.448	1.00	27.38	N
ATOM	429	CZ2	TRP	A1056	9.025	44.048	11.839	1.00	28.05	C
ATOM	430	CZ3	TRP	A1056	10.741	45.763	11.757	1.00	29.41	C
ATOM	431	CH2	TRP	A1056	9.397	45.353	11.628	1.00	28.81	C
ATOM	432	C	TRP	A1056	12.956	40.973	15.059	1.00	21.40	C
ATOM	433	O	TRP	A1056	11.999	41.299	15.754	1.00	21.32	O
ATOM	434	N	SER	A1057	13.233	39.714	14.752	1.00	20.70	N
ATOM	435	CA	SER	A1057	12.429	38.605	15.231	1.00	20.76	C
ATOM	436	CB	SER	A1057	12.956	37.293	14.632	1.00	21.29	C
ATOM	437	OG	SER	A1057	12.032	36.234	14.815	1.00	23.54	O
ATOM	438	C	SER	A1057	12.498	38.559	16.760	1.00	20.11	C
ATOM	439	O	SER	A1057	11.484	38.361	17.438	1.00	19.93	O
ATOM	440	N	ALA	A1058	13.698	38.750	17.303	1.00	19.35	N
ATOM	441	CA	ALA	A1058	13.881	38.727	18.751	1.00	18.89	C
ATOM	442	CB	ALA	A1058	15.373	38.780	19.098	1.00	18.02	C
ATOM	443	C	ALA	A1058	13.139	39.865	19.448	1.00	18.51	C
ATOM	444	O	ALA	A1058	12.502	39.657	20.482	1.00	17.31	O
ATOM	445	N	LYS	A1059	13.213	41.062	18.875	1.00	19.01	N
ATOM	446	CA	LYS	A1059	12.560	42.230	19.470	1.00	20.07	C
ATOM	447	CB	LYS	A1059	13.026	43.513	18.771	1.00	19.92	C
ATOM	448	CG	LYS	A1059	14.539	43.671	18.811	1.00	20.81	C
ATOM	449	CD	LYS	A1059	15.003	45.101	18.534	1.00	21.35	C
ATOM	450	CE	LYS	A1059	16.530	45.190	18.538	1.00	21.30	C
ATOM	451	NZ	LYS	A1059	17.028	46.597	18.453	1.00	21.29	N
ATOM	452	C	LYS	A1059	11.045	42.112	19.420	1.00	20.60	C
ATOM	453	O	LYS	A1059	10.341	42.601	20.309	1.00	19.75	O
ATOM	454	N	GLU	A1060	10.550	41.448	18.381	1.00	21.44	N
ATOM	455	CA	GLU	A1060	9.118	41.246	18.234	1.00	22.69	C
ATOM	456	CB	GLU	A1060	8.783	40.742	16.832	1.00	24.22	C
ATOM	457	CG	GLU	A1060	7.303	40.761	16.521	1.00	27.42	C
ATOM	458	CD	GLU	A1060	6.730	42.169	16.542	1.00	29.59	C
ATOM	459	OE1	GLU	A1060	7.314	43.053	15.866	1.00	29.73	O
ATOM	460	OE2	GLU	A1060	5.700	42.386	17.229	1.00	30.63	O
ATOM	461	C	GLU	A1060	8.651	40.220	19.263	1.00	22.63	C
ATOM	462	O	GLU	A1060	7.631	40.418	19.932	1.00	22.87	O
ATOM	463	N	ALA	A1061	9.395	39.125	19.391	1.00	22.05	N
ATOM	464	CA	ALA	A1061	9.012	38.091	20.346	1.00	22.06	C
ATOM	465	CB	ALA	A1061	9.967	36.899	20.266	1.00	21.94	C
ATOM	466	C	ALA	A1061	8.997	38.663	21.755	1.00	22.04	C
ATOM	467	O	ALA	A1061	8.106	38.359	22.539	1.00	21.13	O
ATOM	468	N	PHE	A1062	9.978	39.506	22.063	1.00	22.38	N
ATOM	469	CA	PHE	A1062	10.055	40.119	23.380	1.00	23.29	C
ATOM	470	CB	PHE	A1062	11.348	40.918	23.532	1.00	22.75	C
ATOM	471	CG	PHE	A1062	11.440	41.648	24.833	1.00	22.71	C
ATOM	472	CD1	PHE	A1062	10.804	42.876	25.003	1.00	22.28	C
ATOM	473	CD2	PHE	A1062	12.107	41.080	25.914	1.00	22.60	C
ATOM	474	CE1	PHE	A1062	10.828	43.529	26.232	1.00	22.88	C
ATOM	475	CE2	PHE	A1062	12.138	41.722	27.154	1.00	22.54	C

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ATOM	476	CZ	PHE	A1062	11.497	42.951	27.314	1.00	22.78	C
ATOM	477	C	PHE	A1062	8.865	41.030	23.667	1.00	24.27	C
ATOM	478	O	PHE	A1062	8.302	41.002	24.765	1.00	24.37	O
ATOM	479	N	SER	A1063	8.498	41.843	22.681	1.00	25.39	N
ATOM	480	CA	SER	A1063	7.373	42.751	22.818	1.00	26.79	C
ATOM	481	CB	SER	A1063	7.196	43.580	21.542	1.00	27.55	C
ATOM	482	OG	SER	A1063	8.184	44.598	21.464	1.00	28.80	O
ATOM	483	C	SER	A1063	6.108	41.965	23.094	1.00	27.26	C
ATOM	484	O	SER	A1063	5.271	42.366	23.897	1.00	27.47	O
ATOM	485	N	LYS	A1064	5.963	40.840	22.421	1.00	28.03	N
ATOM	486	CA	LYS	A1064	4.793	40.018	22.637	1.00	29.08	C
ATOM	487	CB	LYS	A1064	4.725	38.936	21.566	1.00	28.90	C
ATOM	488	CG	LYS	A1064	4.426	39.521	20.195	1.00	30.31	C
ATOM	489	CD	LYS	A1064	4.605	38.519	19.075	1.00	31.26	C
ATOM	490	CE	LYS	A1064	3.733	37.309	19.269	1.00	32.24	C
ATOM	491	NZ	LYS	A1064	3.887	36.361	18.141	1.00	33.56	N
ATOM	492	C	LYS	A1064	4.866	39.428	24.043	1.00	29.71	C
ATOM	493	O	LYS	A1064	3.886	39.467	24.788	1.00	29.61	O
ATOM	494	N	ALA	A1065	6.043	38.926	24.413	1.00	30.48	N
ATOM	495	CA	ALA	A1065	6.263	38.341	25.732	1.00	31.56	C
ATOM	496	CB	ALA	A1065	7.739	38.022	25.917	1.00	31.00	C
ATOM	497	C	ALA	A1065	5.780	39.269	26.851	1.00	32.65	C
ATOM	498	O	ALA	A1065	5.300	38.807	27.882	1.00	31.64	O
ATOM	499	N	MET	A1066	5.922	40.574	26.646	1.00	34.63	N
ATOM	500	CA	MET	A1066	5.479	41.557	27.630	1.00	37.05	C
ATOM	501	CB	MET	A1066	6.245	42.874	27.458	1.00	37.61	C
ATOM	502	CG	MET	A1066	7.710	42.808	27.867	1.00	39.52	C
ATOM	503	SD	MET	A1066	8.007	43.039	29.649	1.00	41.34	S
ATOM	504	CE	MET	A1066	8.983	44.550	29.647	1.00	40.03	C
ATOM	505	C	MET	A1066	3.985	41.798	27.435	1.00	38.24	C
ATOM	506	O	MET	A1066	3.313	42.364	28.295	1.00	38.31	O
ATOM	507	N	GLY	A1067	3.473	41.353	26.293	1.00	39.97	N
ATOM	508	CA	GLY	A1067	2.065	41.524	25.996	1.00	42.23	C
ATOM	509	C	GLY	A1067	1.716	42.953	25.623	1.00	43.61	C
ATOM	510	O	GLY	A1067	1.055	43.658	26.383	1.00	44.09	O
ATOM	511	N	THR	A1068	2.167	43.387	24.452	1.00	44.84	N
ATOM	512	CA	THR	A1068	1.889	44.739	23.985	1.00	46.14	C
ATOM	513	CB	THR	A1068	3.165	45.419	23.444	1.00	45.80	C
ATOM	514	OG1	THR	A1068	3.639	44.703	22.297	1.00	45.63	O
ATOM	515	CG2	THR	A1068	4.249	45.434	24.500	1.00	45.44	C
ATOM	516	C	THR	A1068	0.854	44.654	22.868	1.00	47.39	C
ATOM	517	O	THR	A1068	0.473	45.661	22.270	1.00	47.66	O
ATOM	518	N	GLY	A1069	0.409	43.432	22.592	1.00	48.83	N
ATOM	519	CA	GLY	A1069	-0.585	43.211	21.555	1.00	50.40	C
ATOM	520	C	GLY	A1069	-0.073	43.511	20.162	1.00	51.38	C
ATOM	521	O	GLY	A1069	0.661	42.716	19.569	1.00	51.45	O
ATOM	522	N	ILE	A1070	-0.473	44.665	19.637	1.00	52.38	N
ATOM	523	CA	ILE	A1070	-0.061	45.102	18.308	1.00	53.00	C
ATOM	524	CB	ILE	A1070	-1.285	45.483	17.444	1.00	53.24	C
ATOM	525	CG2	ILE	A1070	-2.148	44.245	17.194	1.00	53.03	C
ATOM	526	CG1	ILE	A1070	-2.102	46.575	18.145	1.00	53.21	C
ATOM	527	CD1	ILE	A1070	-3.310	47.043	17.350	1.00	53.51	C
ATOM	528	C	ILE	A1070	0.850	46.316	18.471	1.00	53.30	C
ATOM	529	O	ILE	A1070	1.800	46.506	17.705	1.00	53.48	O
ATOM	530	N	SER	A1071	0.544	47.137	19.473	1.00	53.35	N
ATOM	531	CA	SER	A1071	1.344	48.321	19.771	1.00	53.45	C
ATOM	532	CB	SER	A1071	0.643	49.183	20.816	1.00	53.58	C

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ATOM	533	OG	SER	A1071	0.577	48.494	22.058	1.00	54.00	O
ATOM	534	C	SER	A1071	2.631	47.765	20.360	1.00	53.38	C
ATOM	535	O	SER	A1071	2.596	46.720	21.019	1.00	53.61	O
ATOM	536	N	LYS	A1072	3.763	48.431	20.138	1.00	52.81	N
ATOM	537	CA	LYS	A1072	5.019	47.908	20.680	1.00	52.05	C
ATOM	538	CB	LYS	A1072	5.857	47.243	19.575	1.00	52.53	C
ATOM	539	CG	LYS	A1072	5.068	46.578	18.459	1.00	53.49	C
ATOM	540	CD	LYS	A1072	4.079	45.535	18.964	1.00	54.32	C
ATOM	541	CE	LYS	A1072	4.750	44.344	19.619	1.00	54.90	C
ATOM	542	NZ	LYS	A1072	3.722	43.377	20.117	1.00	55.42	N
ATOM	543	C	LYS	A1072	5.897	48.936	21.383	1.00	51.05	C
ATOM	544	O	LYS	A1072	5.587	50.127	21.442	1.00	50.60	O
ATOM	545	N	LEU	A1073	7.002	48.435	21.923	1.00	50.01	N
ATOM	546	CA	LEU	A1073	7.989	49.254	22.599	1.00	48.81	C
ATOM	547	CB	LEU	A1073	8.785	48.409	23.601	1.00	49.31	C
ATOM	548	CG	LEU	A1073	8.166	48.084	24.969	1.00	49.63	C
ATOM	549	CD1	LEU	A1073	6.806	47.433	24.812	1.00	49.83	C
ATOM	550	CD2	LEU	A1073	9.099	47.160	25.720	1.00	50.04	C
ATOM	551	C	LEU	A1073	8.930	49.779	21.521	1.00	47.79	C
ATOM	552	O	LEU	A1073	8.923	49.294	20.383	1.00	47.71	O
ATOM	553	N	GLY	A1074	9.733	50.776	21.869	1.00	46.44	N
ATOM	554	CA	GLY	A1074	10.670	51.301	20.896	1.00	44.58	C
ATOM	555	C	GLY	A1074	11.722	50.244	20.621	1.00	43.12	C
ATOM	556	O	GLY	A1074	12.315	49.697	21.553	1.00	43.10	O
ATOM	557	N	PHE	A1075	11.949	49.934	19.351	1.00	41.71	N
ATOM	558	CA	PHE	A1075	12.949	48.937	19.006	1.00	40.26	C
ATOM	559	CB	PHE	A1075	12.870	48.613	17.514	1.00	41.07	C
ATOM	560	CG	PHE	A1075	11.958	47.459	17.207	1.00	42.00	C
ATOM	561	CD1	PHE	A1075	10.930	47.112	18.096	1.00	42.62	C
ATOM	562	CD2	PHE	A1075	12.124	46.707	16.048	1.00	42.28	C
ATOM	563	CE1	PHE	A1075	10.081	46.026	17.835	1.00	42.81	C
ATOM	564	CE2	PHE	A1075	11.281	45.617	15.771	1.00	42.42	C
ATOM	565	CZ	PHE	A1075	10.261	45.276	16.666	1.00	42.86	C
ATOM	566	C	PHE	A1075	14.346	49.388	19.413	1.00	38.94	C
ATOM	567	O	PHE	A1075	15.257	48.569	19.552	1.00	38.45	O
ATOM	568	N	GLN	A1076	14.503	50.692	19.623	1.00	37.14	N
ATOM	569	CA	GLN	A1076	15.779	51.244	20.051	1.00	35.77	C
ATOM	570	CB	GLN	A1076	15.864	52.739	19.720	1.00	35.98	C
ATOM	571	CG	GLN	A1076	16.064	53.046	18.240	1.00	35.74	C
ATOM	572	CD	GLN	A1076	17.323	52.418	17.683	1.00	35.92	C
ATOM	573	OE1	GLN	A1076	18.429	52.672	18.169	1.00	36.68	O
ATOM	574	NE2	GLN	A1076	17.166	51.592	16.659	1.00	35.79	N
ATOM	575	C	GLN	A1076	15.927	51.043	21.556	1.00	34.84	C
ATOM	576	O	GLN	A1076	17.000	51.249	22.116	1.00	34.87	O
ATOM	577	N	ASP	A1077	14.840	50.638	22.202	1.00	33.69	N
ATOM	578	CA	ASP	A1077	14.838	50.395	23.641	1.00	32.88	C
ATOM	579	CB	ASP	A1077	13.466	50.738	24.229	1.00	34.04	C
ATOM	580	CG	ASP	A1077	13.183	52.230	24.220	1.00	35.48	C
ATOM	581	OD1	ASP	A1077	13.877	52.971	24.953	1.00	36.31	O
ATOM	582	OD2	ASP	A1077	12.269	52.659	23.477	1.00	36.39	O
ATOM	583	C	ASP	A1077	15.170	48.935	23.943	1.00	31.37	C
ATOM	584	O	ASP	A1077	15.205	48.517	25.103	1.00	30.93	O
ATOM	585	N	LEU	A1078	15.408	48.165	22.889	1.00	29.66	N
ATOM	586	CA	LEU	A1078	15.724	46.753	23.026	1.00	28.12	C
ATOM	587	CB	LEU	A1078	14.605	45.907	22.410	1.00	28.40	C
ATOM	588	CG	LEU	A1078	13.211	46.138	22.999	1.00	28.65	C
ATOM	589	CD1	LEU	A1078	12.175	45.297	22.250	1.00	28.42	C

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ATOM	590	CD2	LEU	A1078	13.232	45.784	24.485	1.00	28.42	
ATOM	591	C	LEU	A1078	17.029	46.469	22.317	1.00	26.77	C
ATOM	592	O	LEU	A1078	17.256	46.963	21.219	1.00	26.91	C
ATOM	593	N	GLU	A1079	17.892	45.683	22.944	1.00	25.48	O
ATOM	594	CA	GLU	A1079	19.166	45.352	22.330	1.00	24.50	N
ATOM	595	CB	GLU	A1079	20.287	46.202	22.921	1.00	24.22	C
ATOM	596	CG	GLU	A1079	21.561	46.128	22.114	1.00	23.64	C
ATOM	597	CD	GLU	A1079	22.638	47.051	22.635	1.00	24.07	C
ATOM	598	OE1	GLU	A1079	23.079	46.862	23.791	1.00	23.41	O
ATOM	599	OE2	GLU	A1079	23.044	47.967	21.883	1.00	24.29	O
ATOM	600	C	GLU	A1079	19.512	43.885	22.488	1.00	23.86	C
ATOM	601	O	GLU	A1079	19.341	43.305	23.560	1.00	23.77	O
ATOM	602	N	VAL	A1080	20.003	43.291	21.408	1.00	23.09	N
ATOM	603	CA	VAL	A1080	20.377	41.888	21.411	1.00	22.78	C
ATOM	604	CB	VAL	A1080	19.413	41.032	20.529	1.00	22.41	C
ATOM	605	CG1	VAL	A1080	20.005	39.649	20.284	1.00	21.10	C
ATOM	606	CG2	VAL	A1080	18.059	40.893	21.224	1.00	21.12	C
ATOM	607	C	VAL	A1080	21.800	41.707	20.909	1.00	23.31	C
ATOM	608	O	VAL	A1080	22.102	41.942	19.737	1.00	23.36	O
ATOM	609	N	LEU	A1081	22.673	41.292	21.818	1.00	23.52	N
ATOM	610	CA	LEU	A1081	24.066	41.056	21.488	1.00	23.32	C
ATOM	611	CB	LEU	A1081	24.968	41.910	22.391	1.00	22.81	C
ATOM	612	CG	LEU	A1081	24.725	43.426	22.313	1.00	22.95	C
ATOM	613	CD1	LEU	A1081	25.680	44.170	23.239	1.00	22.31	C
ATOM	614	CD2	LEU	A1081	24.919	43.902	20.874	1.00	23.08	C
ATOM	615	C	LEU	A1081	24.347	39.576	21.709	1.00	23.58	C
ATOM	616	O	LEU	A1081	23.436	38.786	21.981	1.00	22.36	O
ATOM	617	N	ASN	A1082	25.614	39.204	21.582	1.00	24.47	N
ATOM	618	CA	ASN	A1082	26.018	37.826	21.802	1.00	25.10	C
ATOM	619	CB	ASN	A1082	26.745	37.301	20.564	1.00	25.30	C
ATOM	620	CG	ASN	A1082	25.798	37.072	19.406	1.00	25.42	C
ATOM	621	OD1	ASN	A1082	24.863	36.277	19.514	1.00	26.33	O
ATOM	622	ND2	ASN	A1082	26.023	37.769	18.299	1.00	25.02	N
ATOM	623	C	ASN	A1082	26.897	37.774	23.042	1.00	25.09	C
ATOM	624	O	ASN	A1082	27.802	38.586	23.197	1.00	24.45	O
ATOM	625	N	ASN	A1083	26.614	36.825	23.932	1.00	26.16	N
ATOM	626	CA	ASN	A1083	27.365	36.697	25.180	1.00	26.89	C
ATOM	627	CB	ASN	A1083	26.484	36.048	26.264	1.00	26.14	C
ATOM	628	CG	ASN	A1083	26.094	34.600	25.952	1.00	25.65	C
ATOM	629	OD1	ASN	A1083	25.289	34.006	26.668	1.00	25.06	O
ATOM	630	ND2	ASN	A1083	26.665	34.032	24.900	1.00	25.04	N
ATOM	631	C	ASN	A1083	28.691	35.953	25.044	1.00	27.81	C
ATOM	632	O	ASN	A1083	29.098	35.595	23.939	1.00	27.57	O
ATOM	633	N	GLU	A1084	29.373	35.729	26.162	1.00	29.55	N
ATOM	634	CA	GLU	A1084	30.656	35.041	26.102	1.00	31.72	C
ATOM	635	CB	GLU	A1084	31.382	35.091	27.465	1.00	32.66	C
ATOM	636	CG	GLU	A1084	30.618	34.574	28.685	1.00	34.91	C
ATOM	637	CD	GLU	A1084	31.407	34.752	29.998	1.00	36.48	C
ATOM	638	OE1	GLU	A1084	32.421	34.051	30.192	1.00	37.32	O
ATOM	639	OE2	GLU	A1084	31.022	35.601	30.841	1.00	37.46	O
ATOM	640	C	GLU	A1084	30.532	33.603	25.584	1.00	32.13	C
ATOM	641	O	GLU	A1084	31.522	33.007	25.186	1.00	32.93	O
ATOM	642	N	ARG	A1085	29.322	33.052	25.578	1.00	32.33	N
ATOM	643	CA	ARG	A1085	29.118	31.703	25.061	1.00	32.71	C
ATOM	644	CB	ARG	A1085	28.057	30.950	25.866	1.00	34.65	C
ATOM	645	CG	ARG	A1085	28.525	30.506	27.238	1.00	37.26	C
ATOM	646	CD	ARG	A1085	29.588	29.432	27.112	1.00	39.70	C

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ATOM	647	NE	ARG	A1085	30.430	29.337	28.303	1.00	42.39	
ATOM	648	CZ	ARG	A1085	31.329	28.375	28.501	1.00	43.44	N
ATOM	649	NH1	ARG	A1085	32.062	28.363	29.611	1.00	44.05	C
ATOM	650	NH2	ARG	A1085	31.482	27.415	27.593	1.00	43.73	N
ATOM	651	C	ARG	A1085	28.682	31.788	23.606	1.00	31.86	N
ATOM	652	O	ARG	A1085	28.369	30.775	22.983	1.00	32.12	C
ATOM	653	N	GLY	A1086	28.664	33.006	23.070	1.00	30.59	O
ATOM	654	CA	GLY	A1086	28.275	33.206	21.687	1.00	29.15	N
ATOM	655	C	GLY	A1086	26.779	33.208	21.427	1.00	28.22	C
ATOM	656	O	GLY	A1086	26.347	33.336	20.287	1.00	28.76	C
ATOM	657	N	ALA	A1087	25.980	33.079	22.476	1.00	26.78	O
ATOM	658	CA	ALA	A1087	24.536	33.052	22.313	1.00	25.40	N
ATOM	659	CB	ALA	A1087	23.907	32.162	23.378	1.00	24.76	C
ATOM	660	C	ALA	A1087	23.936	34.448	22.390	1.00	24.84	C
ATOM	661	O	ALA	A1087	24.417	35.304	23.142	1.00	24.29	C
ATOM	662	N	PRO	A1088	22.886	34.703	21.591	1.00	23.94	O
ATOM	663	CD	PRO	A1088	22.363	33.864	20.496	1.00	23.58	N
ATOM	664	CA	PRO	A1088	22.234	36.009	21.601	1.00	23.19	C
ATOM	665	CB	PRO	A1088	21.303	35.944	20.388	1.00	23.32	C
ATOM	666	CG	PRO	A1088	21.019	34.482	20.239	1.00	23.28	C
ATOM	667	C	PRO	A1088	21.483	36.232	22.911	1.00	22.65	C
ATOM	668	O	PRO	A1088	20.908	35.304	23.475	1.00	22.59	O
ATOM	669	N	TYR	A1089	21.518	37.464	23.407	1.00	22.22	N
ATOM	670	CA	TYR	A1089	20.824	37.808	24.645	1.00	21.73	C
ATOM	671	CB	TYR	A1089	21.720	37.537	25.866	1.00	21.31	C
ATOM	672	CG	TYR	A1089	22.843	38.540	26.058	1.00	20.82	C
ATOM	673	CD1	TYR	A1089	22.795	39.475	27.095	1.00	20.39	C
ATOM	674	CE1	TYR	A1089	23.791	40.428	27.253	1.00	20.46	C
ATOM	675	CD2	TYR	A1089	23.931	38.582	25.177	1.00	20.50	C
ATOM	676	CE2	TYR	A1089	24.942	39.535	25.323	1.00	20.31	C
ATOM	677	CZ	TYR	A1089	24.865	40.458	26.363	1.00	21.12	C
ATOM	678	OH	TYR	A1089	25.844	41.421	26.507	1.00	20.91	O
ATOM	679	C	TYR	A1089	20.459	39.278	24.598	1.00	21.43	C
ATOM	680	O	TYR	A1089	20.986	40.045	23.782	1.00	21.20	O
ATOM	681	N	PHE	A1090	19.541	39.670	25.469	1.00	21.81	N
ATOM	682	CA	PHE	A1090	19.134	41.058	25.534	1.00	21.85	C
ATOM	683	CB	PHE	A1090	17.694	41.182	26.041	1.00	20.99	C
ATOM	684	CG	PHE	A1090	16.651	40.841	25.006	1.00	20.79	C
ATOM	685	CD1	PHE	A1090	16.294	39.519	24.755	1.00	20.19	C
ATOM	686	CD2	PHE	A1090	16.052	41.849	24.247	1.00	20.29	C
ATOM	687	CE1	PHE	A1090	15.364	39.207	23.760	1.00	19.79	C
ATOM	688	CE2	PHE	A1090	15.122	41.543	23.252	1.00	20.00	C
ATOM	689	CZ	PHE	A1090	14.778	40.221	23.007	1.00	19.21	C
ATOM	690	C	PHE	A1090	20.087	41.794	26.467	1.00	22.39	C
ATOM	691	O	PHE	A1090	20.197	41.460	27.643	1.00	22.82	O
ATOM	692	N	SER	A1091	20.791	42.780	25.922	1.00	23.17	N
ATOM	693	CA	SER	A1091	21.725	43.590	26.697	1.00	24.38	C
ATOM	694	CB	SER	A1091	22.879	44.048	25.805	1.00	24.43	C
ATOM	695	OG	SER	A1091	22.405	44.352	24.504	1.00	25.11	O
ATOM	696	C	SER	A1091	20.979	44.805	27.248	1.00	24.91	C
ATOM	697	O	SER	A1091	21.420	45.443	28.204	1.00	24.93	O
ATOM	698	N	GLN	A1092	19.854	45.124	26.618	1.00	25.07	N
ATOM	699	CA	GLN	A1092	19.023	46.235	27.046	1.00	26.14	C
ATOM	700	CB	GLN	A1092	19.357	47.517	26.258	1.00	27.41	C
ATOM	701	CG	GLN	A1092	20.779	48.089	26.463	1.00	29.10	C
ATOM	702	CD	GLN	A1092	21.096	48.475	27.918	1.00	31.36	C
ATOM	703	OE1	GLN	A1092	20.273	49.093	28.607	1.00	32.18	O

ATOM	704	NE2	GLN	A1092	22.306	48.127	28.380	1.00	31.33	N
ATOM	705	C	GLN	A1092	17.556	45.850	26.841	1.00	25.78	C
ATOM	706	O	GLN	A1092	17.148	45.443	25.753	1.00	25.27	O
ATOM	707	N	ALA	A1093	16.777	45.961	27.909	1.00	25.60	N
ATOM	708	CA	ALA	A1093	15.357	45.630	27.870	1.00	25.62	C
ATOM	709	CB	ALA	A1093	15.171	44.110	27.867	1.00	24.75	C
ATOM	710	C	ALA	A1093	14.677	46.238	29.090	1.00	25.61	C
ATOM	711	O	ALA	A1093	15.220	46.209	30.186	1.00	25.48	O
ATOM	712	N	PRO	A1094	13.474	46.796	28.916	1.00	26.29	N
ATOM	713	CD	PRO	A1094	12.668	46.878	27.682	1.00	26.31	C
ATOM	714	CA	PRO	A1094	12.758	47.400	30.046	1.00	26.85	C
ATOM	715	CB	PRO	A1094	11.622	48.147	29.358	1.00	26.71	C
ATOM	716	CG	PRO	A1094	11.292	47.223	28.222	1.00	26.01	C
ATOM	717	C	PRO	A1094	12.241	46.343	31.024	1.00	27.25	C
ATOM	718	O	PRO	A1094	11.182	46.511	31.631	1.00	28.16	O
ATOM	719	N	PHE	A1095	12.980	45.248	31.167	1.00	26.92	N
ATOM	720	CA	PHE	A1095	12.571	44.181	32.069	1.00	26.96	C
ATOM	721	CB	PHE	A1095	12.234	42.918	31.279	1.00	26.69	C
ATOM	722	CG	PHE	A1095	11.729	41.782	32.127	1.00	26.67	C
ATOM	723	CD1	PHE	A1095	12.396	40.553	32.137	1.00	26.30	C
ATOM	724	CD2	PHE	A1095	10.567	41.920	32.879	1.00	25.87	C
ATOM	725	CE1	PHE	A1095	11.911	39.481	32.878	1.00	25.90	C
ATOM	726	CE2	PHE	A1095	10.074	40.853	33.624	1.00	25.69	C
ATOM	727	CZ	PHE	A1095	10.746	39.628	33.625	1.00	26.13	C
ATOM	728	C	PHE	A1095	13.685	43.891	33.055	1.00	26.99	C
ATOM	729	O	PHE	A1095	14.854	43.835	32.680	1.00	27.34	O
ATOM	730	N	SER	A1096	13.319	43.687	34.314	1.00	26.53	N
ATOM	731	CA	SER	A1096	14.308	43.436	35.340	1.00	26.73	C
ATOM	732	CB	SER	A1096	13.973	44.263	36.596	1.00	27.70	C
ATOM	733	OG	SER	A1096	12.642	44.023	37.052	1.00	29.18	O
ATOM	734	C	SER	A1096	14.500	41.968	35.715	1.00	26.21	C
ATOM	735	O	SER	A1096	15.426	41.639	36.464	1.00	26.51	O
ATOM	736	N	GLY	A1097	13.648	41.088	35.198	1.00	25.26	N
ATOM	737	CA	GLY	A1097	13.773	39.679	35.521	1.00	24.11	C
ATOM	738	C	GLY	A1097	14.633	38.918	34.529	1.00	24.17	C
ATOM	739	O	GLY	A1097	15.383	39.512	33.758	1.00	24.01	O
ATOM	740	N	LYS	A1098	14.526	37.594	34.552	1.00	23.74	N
ATOM	741	CA	LYS	A1098	15.281	36.745	33.643	1.00	23.42	C
ATOM	742	CB	LYS	A1098	15.360	35.309	34.172	1.00	24.51	C
ATOM	743	CG	LYS	A1098	16.177	35.141	35.444	1.00	26.65	C
ATOM	744	CD	LYS	A1098	16.236	33.682	35.898	1.00	28.23	C
ATOM	745	CE	LYS	A1098	17.224	33.510	37.058	1.00	30.02	C
ATOM	746	NZ	LYS	A1098	17.270	32.108	37.594	1.00	30.95	N
ATOM	747	C	LYS	A1098	14.602	36.730	32.287	1.00	22.48	C
ATOM	748	O	LYS	A1098	13.374	36.671	32.192	1.00	22.17	O
ATOM	749	N	ILE	A1099	15.419	36.782	31.241	1.00	21.41	N
ATOM	750	CA	ILE	A1099	14.941	36.761	29.876	1.00	20.15	C
ATOM	751	CB	ILE	A1099	15.333	38.039	29.134	1.00	19.84	C
ATOM	752	CG2	ILE	A1099	14.804	37.989	27.713	1.00	20.13	C
ATOM	753	CG1	ILE	A1099	14.791	39.263	29.873	1.00	19.76	C
ATOM	754	CD1	ILE	A1099	15.218	40.583	29.262	1.00	18.64	C
ATOM	755	C	ILE	A1099	15.576	35.581	29.148	1.00	19.81	C
ATOM	756	O	ILE	A1099	16.791	35.528	28.972	1.00	20.43	O
ATOM	757	N	TRP	A1100	14.761	34.623	28.740	1.00	19.20	N
ATOM	758	CA	TRP	A1100	15.277	33.480	28.005	1.00	18.42	C
ATOM	759	CB	TRP	A1100	14.653	32.193	28.530	1.00	17.66	C
ATOM	760	CG	TRP	A1100	14.970	31.962	29.973	1.00	17.80	C

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ATOM	761	CD2	TRP	A1100	16.150	31.351	30.501	1.00	17.39	C
ATOM	762	CE2	TRP	A1100	16.038	31.375	31.914	1.00	17.58	C
ATOM	763	CE3	TRP	A1100	17.294	30.787	29.921	1.00	17.40	C
ATOM	764	CD1	TRP	A1100	14.210	32.323	31.055	1.00	17.92	C
ATOM	765	NE1	TRP	A1100	14.844	31.972	32.222	1.00	17.09	N
ATOM	766	CZ2	TRP	A1100	17.030	30.851	32.759	1.00	16.77	C
ATOM	767	CZ3	TRP	A1100	18.283	30.268	30.763	1.00	17.50	C
ATOM	768	CH2	TRP	A1100	18.138	30.307	32.167	1.00	17.07	C
ATOM	769	C	TRP	A1100	14.946	33.700	26.526	1.00	17.86	C
ATOM	770	O	TRP	A1100	13.791	33.866	26.143	1.00	18.05	O
ATOM	771	N	LEU	A1101	15.987	33.725	25.707	1.00	17.46	N
ATOM	772	CA	LEU	A1101	15.852	33.967	24.290	1.00	16.38	C
ATOM	773	CB	LEU	A1101	16.469	35.325	23.955	1.00	15.64	C
ATOM	774	CG	LEU	A1101	16.715	35.601	22.468	1.00	15.15	C
ATOM	775	CD1	LEU	A1101	15.379	35.873	21.762	1.00	13.79	C
ATOM	776	CD2	LEU	A1101	17.669	36.775	22.317	1.00	14.27	C
ATOM	777	C	LEU	A1101	16.520	32.916	23.429	1.00	16.47	C
ATOM	778	O	LEU	A1101	17.624	32.474	23.720	1.00	16.38	O
ATOM	779	N	SER	A1102	15.847	32.520	22.356	1.00	17.12	N
ATOM	780	CA	SER	A1102	16.429	31.565	21.432	1.00	17.39	C
ATOM	781	CB	SER	A1102	15.962	30.140	21.722	1.00	16.65	C
ATOM	782	OG	SER	A1102	16.736	29.217	20.966	1.00	15.28	O
ATOM	783	C	SER	A1102	16.052	31.965	20.011	1.00	18.55	C
ATOM	784	O	SER	A1102	14.902	32.319	19.727	1.00	18.33	O
ATOM	785	N	ILE	A1103	17.043	31.930	19.127	1.00	19.20	N
ATOM	786	CA	ILE	A1103	16.836	32.286	17.740	1.00	20.42	C
ATOM	787	CB	ILE	A1103	17.588	33.578	17.386	1.00	20.38	C
ATOM	788	CG2	ILE	A1103	17.216	34.026	15.981	1.00	19.83	C
ATOM	789	CG1	ILE	A1103	17.240	34.675	18.399	1.00	20.72	C
ATOM	790	CD1	ILE	A1103	17.996	35.980	18.172	1.00	20.84	C
ATOM	791	C	ILE	A1103	17.347	31.169	16.843	1.00	21.44	C
ATOM	792	O	ILE	A1103	18.373	30.551	17.121	1.00	21.72	O
ATOM	793	N	SER	A1104	16.625	30.916	15.764	1.00	21.94	N
ATOM	794	CA	SER	A1104	17.015	29.884	14.823	1.00	22.99	C
ATOM	795	CB	SER	A1104	16.334	28.556	15.185	1.00	22.73	C
ATOM	796	OG	SER	A1104	16.618	27.550	14.229	1.00	21.97	O
ATOM	797	C	SER	A1104	16.607	30.322	13.421	1.00	23.89	C
ATOM	798	O	SER	A1104	15.698	31.139	13.246	1.00	24.13	O
ATOM	799	N	HIS	A1105	17.283	29.787	12.417	1.00	25.15	N
ATOM	800	CA	HIS	A1105	16.943	30.144	11.049	1.00	26.29	C
ATOM	801	CB	HIS	A1105	17.665	31.429	10.633	1.00	26.35	C
ATOM	802	CG	HIS	A1105	19.153	31.290	10.559	1.00	27.08	C
ATOM	803	CD2	HIS	A1105	19.960	30.889	9.549	1.00	27.02	C
ATOM	804	ND1	HIS	A1105	19.980	31.551	11.630	1.00	27.58	N
ATOM	805	CE1	HIS	A1105	21.234	31.317	11.283	1.00	27.17	C
ATOM	806	NE2	HIS	A1105	21.249	30.914	10.025	1.00	27.22	N
ATOM	807	C	HIS	A1105	17.276	29.060	10.042	1.00	26.76	C
ATOM	808	O	HIS	A1105	18.031	28.129	10.318	1.00	26.55	O
ATOM	809	N	THR	A1106	16.670	29.197	8.874	1.00	27.49	N
ATOM	810	CA	THR	A1106	16.901	28.309	7.751	1.00	28.62	C
ATOM	811	CB	THR	A1106	15.595	27.643	7.273	1.00	28.44	C
ATOM	812	OG1	THR	A1106	14.721	28.635	6.712	1.00	27.15	O
ATOM	813	CG2	THR	A1106	14.901	26.954	8.447	1.00	28.62	C
ATOM	814	C	THR	A1106	17.381	29.299	6.698	1.00	29.33	C
ATOM	815	O	THR	A1106	17.685	30.442	7.027	1.00	29.14	O
ATOM	816	N	ASP	A1107	17.446	28.880	5.444	1.00	30.59	N
ATOM	817	CA	ASP	A1107	17.878	29.789	4.392	1.00	31.74	C

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ATOM	818	CB	ASP	A1107	18.324	28.992	3.160	1.00	33.44	C
ATOM	819	CG	ASP	A1107	19.499	28.054	3.454	1.00	35.18	C
ATOM	820	OD1	ASP	A1107	19.827	27.214	2.582	1.00	36.15	O
ATOM	821	OD2	ASP	A1107	20.099	28.153	4.548	1.00	35.79	O
ATOM	822	C	ASP	A1107	16.720	30.722	4.020	1.00	31.63	C
ATOM	823	O	ASP	A1107	16.913	31.724	3.334	1.00	31.90	O
ATOM	824	N	GLN	A1108	15.518	30.401	4.494	1.00	31.41	N
ATOM	825	CA	GLN	A1108	14.336	31.201	4.175	1.00	30.98	C
ATOM	826	CB	GLN	A1108	13.340	30.345	3.399	1.00	32.64	C
ATOM	827	CG	GLN	A1108	13.860	29.898	2.038	1.00	34.63	C
ATOM	828	CD	GLN	A1108	12.917	28.945	1.346	1.00	35.98	C
ATOM	829	OE1	GLN	A1108	12.698	27.819	1.807	1.00	36.85	O
ATOM	830	NE2	GLN	A1108	12.340	29.391	0.231	1.00	36.81	N
ATOM	831	C	GLN	A1108	13.616	31.862	5.338	1.00	29.94	C
ATOM	832	O	GLN	A1108	12.985	32.899	5.158	1.00	29.44	O
ATOM	833	N	PHE	A1109	13.700	31.269	6.529	1.00	29.06	N
ATOM	834	CA	PHE	A1109	13.024	31.838	7.692	1.00	27.73	C
ATOM	835	CB	PHE	A1109	11.762	31.036	8.037	1.00	27.57	C
ATOM	836	CG	PHE	A1109	10.744	31.005	6.941	1.00	27.23	C
ATOM	837	CD1	PHE	A1109	10.788	30.017	5.962	1.00	27.53	C
ATOM	838	CD2	PHE	A1109	9.749	31.976	6.871	1.00	27.16	C
ATOM	839	CE1	PHE	A1109	9.852	30.000	4.921	1.00	27.28	C
ATOM	840	CE2	PHE	A1109	8.810	31.970	5.838	1.00	26.77	C
ATOM	841	CZ	PHE	A1109	8.861	30.981	4.861	1.00	26.97	C
ATOM	842	C	PHE	A1109	13.868	31.932	8.950	1.00	26.95	C
ATOM	843	O	PHE	A1109	14.877	31.243	9.102	1.00	27.19	O
ATOM	844	N	VAL	A1110	13.431	32.803	9.852	1.00	25.89	N
ATOM	845	CA	VAL	A1110	14.080	32.992	11.138	1.00	25.13	C
ATOM	846	CB	VAL	A1110	14.844	34.347	11.197	1.00	25.40	C
ATOM	847	CG1	VAL	A1110	13.874	35.510	11.081	1.00	25.64	C
ATOM	848	CG2	VAL	A1110	15.623	34.449	12.499	1.00	25.77	C
ATOM	849	C	VAL	A1110	12.956	32.973	12.184	1.00	24.39	C
ATOM	850	O	VAL	A1110	11.863	33.500	11.936	1.00	24.17	O
ATOM	851	N	THR	A1111	13.206	32.344	13.332	1.00	23.30	N
ATOM	852	CA	THR	A1111	12.208	32.289	14.404	1.00	22.55	C
ATOM	853	CB	THR	A1111	11.610	30.888	14.562	1.00	22.93	C
ATOM	854	OG1	THR	A1111	12.670	29.954	14.786	1.00	24.79	O
ATOM	855	CG2	THR	A1111	10.839	30.479	13.323	1.00	23.61	C
ATOM	856	C	THR	A1111	12.830	32.664	15.746	1.00	21.62	C
ATOM	857	O	THR	A1111	13.999	32.377	16.002	1.00	21.64	O
ATOM	858	N	ALA	A1112	12.041	33.299	16.605	1.00	20.37	N
ATOM	859	CA	ALA	A1112	12.522	33.688	17.922	1.00	19.66	C
ATOM	860	CB	ALA	A1112	12.800	35.202	17.970	1.00	19.55	C
ATOM	861	C	ALA	A1112	11.516	33.311	19.004	1.00	19.07	C
ATOM	862	O	ALA	A1112	10.302	33.410	18.814	1.00	19.29	O
ATOM	863	N	SER	A1113	12.034	32.872	20.139	1.00	17.99	N
ATOM	864	CA	SER	A1113	11.195	32.506	21.263	1.00	17.22	C
ATOM	865	CB	SER	A1113	11.174	30.989	21.457	1.00	16.88	C
ATOM	866	OG	SER	A1113	10.313	30.614	22.521	1.00	16.26	O
ATOM	867	C	SER	A1113	11.782	33.180	22.487	1.00	17.09	C
ATOM	868	O	SER	A1113	12.995	33.112	22.733	1.00	16.32	O
ATOM	869	N	VAL	A1114	10.906	33.831	23.245	1.00	17.10	N
ATOM	870	CA	VAL	A1114	11.289	34.548	24.451	1.00	16.74	C
ATOM	871	CB	VAL	A1114	11.164	36.081	24.243	1.00	16.29	C
ATOM	872	CG1	VAL	A1114	11.205	36.814	25.592	1.00	15.10	C
ATOM	873	CG2	VAL	A1114	12.298	36.574	23.329	1.00	16.31	C
ATOM	874	C	VAL	A1114	10.422	34.149	25.635	1.00	17.36	C

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ATOM	875	O	VAL A1114	9.190	34.114	25.544	1.00	16.90	O
ATOM	876	N	ILE A1115	11.073	33.834	26.747	1.00	17.78	N
ATOM	877	CA	ILE A1115	10.354	33.478	27.957	1.00	18.59	C
ATOM	878	CB	ILE A1115	10.632	32.020	28.395	1.00	17.89	C
ATOM	879	CG2	ILE A1115	9.806	31.691	29.641	1.00	17.73	C
ATOM	880	CG1	ILE A1115	10.247	31.053	27.272	1.00	18.13	C
ATOM	881	CD1	ILE A1115	10.654	29.599	27.521	1.00	17.22	C
ATOM	882	C	ILE A1115	10.830	34.431	29.049	1.00	19.32	C
ATOM	883	O	ILE A1115	12.025	34.538	29.304	1.00	19.25	O
ATOM	884	N	LEU A1116	9.895	35.137	29.670	1.00	20.62	N
ATOM	885	CA	LEU A1116	10.239	36.066	30.736	1.00	22.56	C
ATOM	886	CB	LEU A1116	9.408	37.341	30.617	1.00	22.06	C
ATOM	887	CG	LEU A1116	9.547	38.064	29.272	1.00	22.11	C
ATOM	888	CD1	LEU A1116	8.540	39.207	29.187	1.00	21.22	C
ATOM	889	CD2	LEU A1116	10.969	38.578	29.113	1.00	21.72	C
ATOM	890	C	LEU A1116	9.984	35.379	32.069	1.00	24.06	C
ATOM	891	O	LEU A1116	8.936	34.765	32.275	1.00	23.78	O
ATOM	892	N	GLU A1117	10.953	35.486	32.970	1.00	25.93	N
ATOM	893	CA	GLU A1117	10.857	34.843	34.267	1.00	28.06	C
ATOM	894	CB	GLU A1117	11.604	33.502	34.204	1.00	28.05	C
ATOM	895	CG	GLU A1117	11.800	32.793	35.536	1.00	28.32	C
ATOM	896	CD	GLU A1117	12.626	31.512	35.405	1.00	28.66	C
ATOM	897	OE1	GLU A1117	13.711	31.567	34.777	1.00	28.33	O
ATOM	898	OE2	GLU A1117	12.196	30.458	35.936	1.00	28.07	O
ATOM	899	C	GLU A1117	11.413	35.699	35.404	1.00	29.70	C
ATOM	900	O	GLU A1117	12.242	36.583	35.190	1.00	29.81	O
ATOM	901	N	GLU A1118	10.928	35.441	36.615	1.00	31.64	N
ATOM	902	CA	GLU A1118	11.416	36.141	37.794	1.00	33.73	C
ATOM	903	CB	GLU A1118	10.860	37.567	37.862	1.00	35.16	C
ATOM	904	CG	GLU A1118	9.358	37.670	37.941	1.00	37.05	C
ATOM	905	CD	GLU A1118	8.900	39.113	38.056	1.00	38.65	C
ATOM	906	OE1	GLU A1118	9.476	39.973	37.348	1.00	38.82	O
ATOM	907	OE2	GLU A1118	7.961	39.385	38.848	1.00	39.77	O
ATOM	908	C	GLU A1118	11.043	35.365	39.048	1.00	34.16	C
ATOM	909	O	GLU A1118	9.912	34.845	39.107	1.00	34.38	O
ATOM	910	OXT	GLU A1118	11.894	35.280	39.956	1.00	35.21	O
TER	911		GLU A1118						
ATOM	912	CB	MET B2003	5.244	24.216	39.082	1.00	30.13	C
ATOM	913	CG	MET B2003	5.229	22.763	38.655	1.00	32.03	C
ATOM	914	SD	MET B2003	4.499	21.640	39.877	1.00	34.60	S
ATOM	915	CE	MET B2003	5.729	20.323	39.875	1.00	32.91	C
ATOM	916	C	MET B2003	5.364	24.946	36.697	1.00	27.68	C
ATOM	917	O	MET B2003	4.190	25.254	36.454	1.00	27.76	O
ATOM	918	N	MET B2003	5.824	26.555	38.533	1.00	28.66	N
ATOM	919	CA	MET B2003	5.954	25.143	38.090	1.00	28.51	C
ATOM	920	N	ILE B2004	6.184	24.439	35.782	1.00	26.12	N
ATOM	921	CA	ILE B2004	5.730	24.192	34.423	1.00	24.36	C
ATOM	922	CB	ILE B2004	6.907	24.200	33.423	1.00	23.97	C
ATOM	923	CG2	ILE B2004	6.445	23.691	32.062	1.00	22.87	C
ATOM	924	CG1	ILE B2004	7.465	25.624	33.300	1.00	23.67	C
ATOM	925	CD1	ILE B2004	8.670	25.746	32.379	1.00	23.02	C
ATOM	926	C	ILE B2004	5.035	22.841	34.376	1.00	23.70	C
ATOM	927	O	ILE B2004	5.537	21.854	34.917	1.00	23.27	O
ATOM	928	N	VAL B2005	3.866	22.793	33.748	1.00	22.71	N
ATOM	929	CA	VAL B2005	3.151	21.530	33.660	1.00	22.27	C
ATOM	930	CB	VAL B2005	1.853	21.564	34.494	1.00	21.83	C
ATOM	931	CG1	VAL B2005	2.204	21.793	35.959	1.00	21.47	C

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ATOM	932	CG2	VAL	B2005	0.920	22.653	33.994	1.00	21.79	
ATOM	933	C	VAL	B2005	2.847	21.133	32.228	1.00	22.00	C
ATOM	934	O	VAL	B2005	2.130	20.163	31.995	1.00	22.54	C
ATOM	935	N	GLY	B2006	3.417	21.880	31.278	1.00	21.53	O
ATOM	936	CA	GLY	B2006	3.225	21.594	29.867	1.00	20.47	N
ATOM	937	C	GLY	B2006	3.802	22.634	28.914	1.00	19.98	C
ATOM	938	O	GLY	B2006	3.873	23.820	29.237	1.00	20.12	C
ATOM	939	N	HIS	B2007	4.235	22.175	27.741	1.00	19.33	O
ATOM	940	CA	HIS	B2007	4.789	23.031	26.686	1.00	18.80	N
ATOM	941	CB	HIS	B2007	6.301	23.191	26.832	1.00	18.37	C
ATOM	942	CG	HIS	B2007	6.945	23.945	25.708	1.00	18.59	C
ATOM	943	CD2	HIS	B2007	8.088	23.712	25.015	1.00	19.30	C
ATOM	944	ND1	HIS	B2007	6.447	25.138	25.226	1.00	18.65	C
ATOM	945	CE1	HIS	B2007	7.254	25.607	24.289	1.00	18.01	N
ATOM	946	NE2	HIS	B2007	8.259	24.763	24.143	1.00	18.26	C
ATOM	947	C	HIS	B2007	4.482	22.387	25.342	1.00	18.69	N
ATOM	948	O	HIS	B2007	4.731	21.197	25.146	1.00	17.82	C
ATOM	949	N	GLY	B2008	3.925	23.174	24.425	1.00	19.16	O
ATOM	950	CA	GLY	B2008	3.599	22.655	23.110	1.00	18.31	N
ATOM	951	C	GLY	B2008	3.703	23.724	22.043	1.00	18.66	C
ATOM	952	O	GLY	B2008	3.378	24.890	22.297	1.00	18.62	C
ATOM	953	N	ILE	B2009	4.175	23.336	20.858	1.00	18.18	O
ATOM	954	CA	ILE	B2009	4.282	24.257	19.736	1.00	18.56	N
ATOM	955	CB	ILE	B2009	5.747	24.562	19.351	1.00	18.23	C
ATOM	956	CG2	ILE	B2009	6.471	25.174	20.538	1.00	17.94	C
ATOM	957	CG1	ILE	B2009	6.440	23.285	18.847	1.00	17.91	C
ATOM	958	CD1	ILE	B2009	7.819	23.525	18.220	1.00	16.62	C
ATOM	959	C	ILE	B2009	3.601	23.657	18.513	1.00	19.50	C
ATOM	960	O	ILE	B2009	3.286	22.470	18.472	1.00	18.95	O
ATOM	961	N	ASP	B2010	3.356	24.492	17.518	1.00	20.39	N
ATOM	962	CA	ASP	B2010	2.751	24.015	16.298	1.00	21.57	C
ATOM	963	CB	ASP	B2010	1.251	23.773	16.481	1.00	22.40	C
ATOM	964	CG	ASP	B2010	0.635	22.980	15.317	1.00	23.74	C
ATOM	965	OD1	ASP	B2010	0.223	23.595	14.308	1.00	23.88	O
ATOM	966	OD2	ASP	B2010	0.576	21.731	15.415	1.00	24.74	O
ATOM	967	C	ASP	B2010	2.979	25.019	15.200	1.00	22.11	C
ATOM	968	O	ASP	B2010	3.032	26.224	15.443	1.00	22.03	O
ATOM	969	N	ILE	B2011	3.145	24.502	13.991	1.00	23.00	N
ATOM	970	CA	ILE	B2011	3.335	25.336	12.824	1.00	24.24	C
ATOM	971	CB	ILE	B2011	4.818	25.320	12.339	1.00	24.43	C
ATOM	972	CG2	ILE	B2011	5.258	23.905	11.972	1.00	24.62	C
ATOM	973	CG1	ILE	B2011	4.970	26.244	11.133	1.00	25.18	C
ATOM	974	CD1	ILE	B2011	6.404	26.433	10.684	1.00	26.49	C
ATOM	975	C	ILE	B2011	2.398	24.818	11.732	1.00	25.03	C
ATOM	976	O	ILE	B2011	2.257	23.609	11.532	1.00	24.85	O
ATOM	977	N	GLU	B2012	1.733	25.740	11.050	1.00	26.14	N
ATOM	978	CA	GLU	B2012	0.813	25.377	9.979	1.00	27.22	C
ATOM	979	CB	GLU	B2012	-0.636	25.692	10.369	1.00	28.06	C
ATOM	980	CG	GLU	B2012	-1.179	24.920	11.549	1.00	30.35	C
ATOM	981	CD	GLU	B2012	-1.237	23.427	11.301	1.00	31.85	C
ATOM	982	OE1	GLU	B2012	-1.472	23.026	10.133	1.00	32.85	O
ATOM	983	OE2	GLU	B2012	-1.065	22.660	12.278	1.00	31.85	O
ATOM	984	C	GLU	B2012	1.130	26.138	8.704	1.00	27.07	C
ATOM	985	O	GLU	B2012	1.558	27.294	8.738	1.00	26.78	O
ATOM	986	N	GLU	B2013	0.914	25.471	7.579	1.00	27.58	N
ATOM	987	CA	GLU	B2013	1.115	26.080	6.272	1.00	27.80	C
ATOM	988	CB	GLU	B2013	1.533	25.018	5.253	1.00	28.06	C

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ATOM	989	CG	GLU	B2013	1.806	25.553	3.851	1.00	29.06	C
ATOM	990	CD	GLU	B2013	2.105	24.447	2.858	0.05	28.78	C
ATOM	991	OE1	GLU	B2013	3.074	23.691	3.081	0.05	28.87	O
ATOM	992	OE2	GLU	B2013	1.370	24.335	1.856	0.05	28.90	O
ATOM	993	C	GLU	B2013	-0.268	26.626	5.939	1.00	27.67	C
ATOM	994	O	GLU	B2013	-1.250	25.894	5.982	1.00	27.29	O
ATOM	995	N	LEU	B2014	-0.350	27.916	5.644	1.00	28.07	N
ATOM	996	CA	LEU	B2014	-1.629	28.542	5.330	1.00	28.65	C
ATOM	997	CB	LEU	B2014	-1.426	30.023	4.986	1.00	28.56	C
ATOM	998	CG	LEU	B2014	-1.332	31.022	6.147	1.00	28.97	C
ATOM	999	CD1	LEU	B2014	-2.677	31.113	6.840	1.00	28.76	C
ATOM	1000	CD2	LEU	B2014	-0.260	30.593	7.139	1.00	28.89	C
ATOM	1001	C	LEU	B2014	-2.356	27.847	4.189	1.00	28.89	C
ATOM	1002	O	LEU	B2014	-3.584	27.758	4.189	1.00	28.92	O
ATOM	1003	N	ALA	B2015	-1.588	27.346	3.228	1.00	29.40	N
ATOM	1004	CA	ALA	B2015	-2.137	26.665	2.058	1.00	29.93	C
ATOM	1005	CB	ALA	B2015	-0.999	26.206	1.146	1.00	29.23	C
ATOM	1006	C	ALA	B2015	-3.033	25.483	2.401	1.00	30.15	C
ATOM	1007	O	ALA	B2015	-4.062	25.278	1.760	1.00	30.32	O
ATOM	1008	N	SER	B2016	-2.648	24.703	3.403	1.00	30.53	N
ATOM	1009	CA	SER	B2016	-3.445	23.544	3.776	1.00	31.47	C
ATOM	1010	CB	SER	B2016	-2.625	22.583	4.640	1.00	31.89	C
ATOM	1011	OG	SER	B2016	-2.229	23.193	5.846	1.00	33.02	O
ATOM	1012	C	SER	B2016	-4.735	23.946	4.487	1.00	31.84	C
ATOM	1013	O	SER	B2016	-5.741	23.243	4.391	1.00	31.71	O
ATOM	1014	N	ILE	B2017	-4.716	25.068	5.201	1.00	32.07	N
ATOM	1015	CA	ILE	B2017	-5.932	25.527	5.861	1.00	32.52	C
ATOM	1016	CB	ILE	B2017	-5.651	26.688	6.843	1.00	32.37	C
ATOM	1017	CG2	ILE	B2017	-6.973	27.246	7.385	1.00	32.53	C
ATOM	1018	CG1	ILE	B2017	-4.759	26.203	7.996	1.00	32.12	C
ATOM	1019	CD1	ILE	B2017	-5.399	25.165	8.894	1.00	31.06	C
ATOM	1020	C	ILE	B2017	-6.862	26.015	4.748	1.00	33.04	C
ATOM	1021	O	ILE	B2017	-8.084	25.862	4.821	1.00	32.69	O
ATOM	1022	N	GLU	B2018	-6.263	26.597	3.711	1.00	33.86	N
ATOM	1023	CA	GLU	B2018	-7.006	27.095	2.554	1.00	34.86	C
ATOM	1024	CB	GLU	B2018	-6.042	27.669	1.504	1.00	36.31	C
ATOM	1025	CG	GLU	B2018	-5.544	29.080	1.764	1.00	38.14	C
ATOM	1026	CD	GLU	B2018	-6.554	30.137	1.359	1.00	39.70	C
ATOM	1027	OE1	GLU	B2018	-7.673	29.764	0.937	1.00	40.41	O
ATOM	1028	OE2	GLU	B2018	-6.231	31.341	1.464	1.00	40.25	O
ATOM	1029	C	GLU	B2018	-7.782	25.947	1.918	1.00	34.57	C
ATOM	1030	O	GLU	B2018	-8.964	26.076	1.612	1.00	34.08	O
ATOM	1031	N	SER	B2019	-7.094	24.828	1.711	1.00	34.49	N
ATOM	1032	CA	SER	B2019	-7.705	23.650	1.103	1.00	34.60	C
ATOM	1033	CB	SER	B2019	-6.639	22.610	0.793	1.00	34.46	C
ATOM	1034	OG	SER	B2019	-5.712	23.150	-0.125	1.00	35.85	O
ATOM	1035	C	SER	B2019	-8.761	23.039	1.996	1.00	34.54	C
ATOM	1036	O	SER	B2019	-9.827	22.646	1.523	1.00	34.67	O
ATOM	1037	N	ALA	B2020	-8.463	22.965	3.290	1.00	34.29	N
ATOM	1038	CA	ALA	B2020	-9.395	22.402	4.251	1.00	34.25	C
ATOM	1039	CB	ALA	B2020	-8.811	22.471	5.650	1.00	33.91	C
ATOM	1040	C	ALA	B2020	-10.703	23.175	4.180	1.00	34.65	C
ATOM	1041	O	ALA	B2020	-11.778	22.579	4.133	1.00	34.60	O
ATOM	1042	N	VAL	B2021	-10.604	24.502	4.151	1.00	35.08	N
ATOM	1043	CA	VAL	B2021	-11.784	25.359	4.073	1.00	35.39	C
ATOM	1044	CB	VAL	B2021	-11.411	26.855	4.220	1.00	35.27	C
ATOM	1045	CG1	VAL	B2021	-12.608	27.732	3.884	1.00	34.79	C

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ATOM	1046	CG2	VAL	B2021	-10.951	27.136	5.637	1.00	35.33	C
ATOM	1047	C	VAL	B2021	-12.526	25.174	2.756	1.00	36.00	C
ATOM	1048	O	VAL	B2021	-13.746	24.985	2.749	1.00	35.93	O
ATOM	1049	N	THR	B2022	-11.795	25.237	1.644	1.00	36.68	N
ATOM	1050	CA	THR	B2022	-12.401	25.072	0.326	1.00	37.80	C
ATOM	1051	CB	THR	B2022	-11.351	25.211	-0.813	1.00	38.05	C
ATOM	1052	OG1	THR	B2022	-10.830	26.549	-0.839	1.00	37.71	O
ATOM	1053	CG2	THR	B2022	-11.988	24.898	-2.166	1.00	37.87	C
ATOM	1054	C	THR	B2022	-13.064	23.701	0.210	1.00	38.58	C
ATOM	1055	O	THR	B2022	-14.204	23.584	-0.234	1.00	38.63	O
ATOM	1056	N	ARG	B2023	-12.348	22.666	0.629	1.00	39.65	N
ATOM	1057	CA	ARG	B2023	-12.864	21.306	0.563	1.00	41.03	C
ATOM	1058	CB	ARG	B2023	-11.828	20.317	1.106	1.00	41.66	C
ATOM	1059	CG	ARG	B2023	-11.891	18.939	0.452	1.00	43.04	C
ATOM	1060	CD	ARG	B2023	-13.312	18.416	0.395	1.00	43.90	C
ATOM	1061	NE	ARG	B2023	-13.406	17.090	-0.202	1.00	44.75	N
ATOM	1062	CZ	ARG	B2023	-14.524	16.371	-0.231	1.00	45.34	C
ATOM	1063	NH1	ARG	B2023	-15.638	16.862	0.302	1.00	45.03	N
ATOM	1064	NH2	ARG	B2023	-14.527	15.157	-0.773	1.00	45.61	N
ATOM	1065	C	ARG	B2023	-14.165	21.138	1.343	1.00	41.52	C
ATOM	1066	O	ARG	B2023	-15.180	20.712	0.787	1.00	41.49	O
ATOM	1067	N	HIS	B2024	-14.120	21.467	2.631	1.00	41.94	N
ATOM	1068	CA	HIS	B2024	-15.274	21.343	3.511	1.00	42.45	C
ATOM	1069	CB	HIS	B2024	-14.931	20.424	4.678	1.00	43.39	C
ATOM	1070	CG	HIS	B2024	-14.516	19.050	4.255	1.00	44.50	C
ATOM	1071	CD2	HIS	B2024	-13.294	18.468	4.191	1.00	44.72	C
ATOM	1072	ND1	HIS	B2024	-15.411	18.115	3.777	1.00	45.05	N
ATOM	1073	CE1	HIS	B2024	-14.758	17.018	3.436	1.00	45.22	C
ATOM	1074	NE2	HIS	B2024	-13.473	17.206	3.677	1.00	45.24	N
ATOM	1075	C	HIS	B2024	-15.713	22.697	4.040	1.00	42.58	C
ATOM	1076	O	HIS	B2024	-14.934	23.412	4.672	1.00	42.87	O
ATOM	1077	N	GLU	B2025	-16.967	23.050	3.781	1.00	42.39	N
ATOM	1078	CA	GLU	B2025	-17.490	24.326	4.242	1.00	41.91	C
ATOM	1079	CB	GLU	B2025	-18.732	24.732	3.437	1.00	43.59	C
ATOM	1080	CG	GLU	B2025	-18.797	26.229	3.153	1.00	45.80	C
ATOM	1081	CD	GLU	B2025	-20.117	26.675	2.544	1.00	47.26	C
ATOM	1082	OE1	GLU	B2025	-20.610	26.003	1.603	1.00	47.52	O
ATOM	1083	OE2	GLU	B2025	-20.653	27.710	3.006	1.00	48.07	O
ATOM	1084	C	GLU	B2025	-17.848	24.211	5.712	1.00	40.39	C
ATOM	1085	O	GLU	B2025	-18.172	25.203	6.356	1.00	40.62	O
ATOM	1086	N	GLY	B2026	-17.789	22.993	6.238	1.00	38.87	N
ATOM	1087	CA	GLY	B2026	-18.105	22.788	7.638	1.00	36.84	C
ATOM	1088	C	GLY	B2026	-16.865	22.836	8.507	1.00	35.50	C
ATOM	1089	O	GLY	B2026	-16.954	22.961	9.732	1.00	35.89	O
ATOM	1090	N	PHE	B2027	-15.706	22.746	7.866	1.00	33.86	N
ATOM	1091	CA	PHE	B2027	-14.416	22.752	8.549	1.00	32.08	C
ATOM	1092	CB	PHE	B2027	-13.293	22.958	7.532	1.00	31.28	C
ATOM	1093	CG	PHE	B2027	-11.926	22.896	8.128	1.00	29.92	C
ATOM	1094	CD1	PHE	B2027	-11.396	21.682	8.555	1.00	28.97	C
ATOM	1095	CD2	PHE	B2027	-11.176	24.054	8.293	1.00	29.17	C
ATOM	1096	CE1	PHE	B2027	-10.143	21.623	9.135	1.00	28.66	C
ATOM	1097	CE2	PHE	B2027	-9.918	24.006	8.875	1.00	28.77	C
ATOM	1098	CZ	PHE	B2027	-9.399	22.790	9.298	1.00	28.68	C
ATOM	1099	C	PHE	B2027	-14.294	23.801	9.651	1.00	31.46	C
ATOM	1100	O	PHE	B2027	-14.059	23.465	10.815	1.00	31.23	O
ATOM	1101	N	ALA	B2028	-14.454	25.067	9.278	1.00	30.51	N
ATOM	1102	CA	ALA	B2028	-14.360	26.169	10.228	1.00	30.25	C

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ATOM	1103	CB	ALA	B2028	-14.624	27.487	9.517	1.00	30.53	C
ATOM	1104	C	ALA	B2028	-15.305	26.030	11.421	1.00	30.13	C
ATOM	1105	O	ALA	B2028	-14.926	26.308	12.561	1.00	29.80	O
ATOM	1106	N	LYS	B2029	-16.533	25.600	11.160	1.00	30.02	N
ATOM	1107	CA	LYS	B2029	-17.520	25.448	12.225	1.00	30.10	C
ATOM	1108	CB	LYS	B2029	-18.882	25.053	11.637	1.00	30.49	C
ATOM	1109	CG	LYS	B2029	-19.552	26.148	10.821	1.00	31.20	C
ATOM	1110	CD	LYS	B2029	-20.765	25.618	10.074	0.05	30.87	C
ATOM	1111	CE	LYS	B2029	-21.354	26.675	9.153	0.05	30.89	C
ATOM	1112	NZ	LYS	B2029	-22.504	26.150	8.365	0.05	30.76	N
ATOM	1113	C	LYS	B2029	-17.099	24.408	13.248	1.00	29.50	C
ATOM	1114	O	LYS	B2029	-17.467	24.491	14.420	1.00	29.99	O
ATOM	1115	N	ARG	B2030	-16.326	23.428	12.798	1.00	28.70	N
ATOM	1116	CA	ARG	B2030	-15.877	22.348	13.667	1.00	27.83	C
ATOM	1117	CB	ARG	B2030	-15.616	21.093	12.822	1.00	27.88	C
ATOM	1118	CG	ARG	B2030	-16.867	20.503	12.193	0.05	27.87	C
ATOM	1119	CD	ARG	B2030	-16.543	19.293	11.332	0.05	27.87	C
ATOM	1120	NE	ARG	B2030	-15.748	19.648	10.160	0.05	27.89	N
ATOM	1121	CZ	ARG	B2030	-15.379	18.785	9.218	0.05	27.88	C
ATOM	1122	NH1	ARG	B2030	-15.732	17.510	9.309	0.05	27.89	N
ATOM	1123	NH2	ARG	B2030	-14.658	19.196	8.184	0.05	27.87	N
ATOM	1124	C	ARG	B2030	-14.631	22.698	14.477	1.00	26.83	C
ATOM	1125	O	ARG	B2030	-14.391	22.134	15.541	1.00	26.57	O
ATOM	1126	N	VAL	B2031	-13.854	23.644	13.965	1.00	25.79	N
ATOM	1127	CA	VAL	B2031	-12.610	24.073	14.596	1.00	24.76	C
ATOM	1128	CB	VAL	B2031	-11.565	24.442	13.505	1.00	24.82	C
ATOM	1129	CG1	VAL	B2031	-10.365	25.139	14.121	1.00	24.72	C
ATOM	1130	CG2	VAL	B2031	-11.125	23.184	12.779	1.00	24.93	C
ATOM	1131	C	VAL	B2031	-12.806	25.263	15.523	1.00	23.81	C
ATOM	1132	O	VAL	B2031	-12.166	25.365	16.568	1.00	22.82	O
ATOM	1133	N	LEU	B2032	-13.709	26.149	15.127	1.00	23.54	N
ATOM	1134	CA	LEU	B2032	-13.997	27.361	15.873	1.00	23.22	C
ATOM	1135	CB	LEU	B2032	-14.157	28.528	14.893	1.00	22.85	C
ATOM	1136	CG	LEU	B2032	-12.924	28.789	14.022	1.00	22.24	C
ATOM	1137	CD1	LEU	B2032	-13.210	29.906	13.026	1.00	22.11	C
ATOM	1138	CD2	LEU	B2032	-11.747	29.152	14.918	1.00	22.17	C
ATOM	1139	C	LEU	B2032	-15.233	27.256	16.744	1.00	23.32	C
ATOM	1140	O	LEU	B2032	-16.122	26.454	16.482	1.00	23.42	O
ATOM	1141	N	THR	B2033	-15.263	28.060	17.803	1.00	23.69	N
ATOM	1142	CA	THR	B2033	-16.404	28.105	18.713	1.00	23.81	C
ATOM	1143	CB	THR	B2033	-16.002	28.538	20.129	1.00	23.49	C
ATOM	1144	OG1	THR	B2033	-15.442	29.858	20.074	1.00	23.22	O
ATOM	1145	CG2	THR	B2033	-15.004	27.571	20.726	1.00	22.82	C
ATOM	1146	C	THR	B2033	-17.312	29.191	18.162	1.00	24.17	C
ATOM	1147	O	THR	B2033	-16.915	29.930	17.264	1.00	24.05	O
ATOM	1148	N	ALA	B2034	-18.516	29.302	18.709	1.00	24.73	N
ATOM	1149	CA	ALA	B2034	-19.456	30.322	18.246	1.00	25.88	C
ATOM	1150	CB	ALA	B2034	-20.704	30.326	19.127	1.00	25.52	C
ATOM	1151	C	ALA	B2034	-18.793	31.704	18.245	1.00	26.34	C
ATOM	1152	O	ALA	B2034	-18.815	32.409	17.231	1.00	26.66	O
ATOM	1153	N	LEU	B2035	-18.194	32.083	19.374	1.00	27.02	N
ATOM	1154	CA	LEU	B2035	-17.518	33.375	19.477	1.00	27.85	C
ATOM	1155	CB	LEU	B2035	-16.868	33.549	20.852	1.00	28.57	C
ATOM	1156	CG	LEU	B2035	-17.760	33.942	22.028	1.00	29.51	C
ATOM	1157	CD1	LEU	B2035	-16.879	34.241	23.246	1.00	29.47	C
ATOM	1158	CD2	LEU	B2035	-18.596	35.181	21.648	1.00	29.85	C
ATOM	1159	C	LEU	B2035	-16.445	33.516	18.405	1.00	28.07	C

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ATOM	1160	O	LEU	B2035	-16.395	34.516	17.687	1.00	28.48	O
ATOM	1161	N	GLU	B2036	-15.578	32.518	18.308	1.00	27.90	N
ATOM	1162	CA	GLU	B2036	-14.518	32.542	17.310	1.00	27.73	C
ATOM	1163	CB	GLU	B2036	-13.666	31.270	17.414	1.00	26.50	C
ATOM	1164	CG	GLU	B2036	-12.568	31.339	18.474	1.00	25.25	C
ATOM	1165	CD	GLU	B2036	-11.969	29.976	18.799	1.00	24.47	C
ATOM	1166	OE1	GLU	B2036	-10.797	29.925	19.226	1.00	23.46	O
ATOM	1167	OE2	GLU	B2036	-12.676	28.957	18.636	1.00	24.23	O
ATOM	1168	C	GLU	B2036	-15.073	32.686	15.895	1.00	28.15	C
ATOM	1169	O	GLU	B2036	-14.507	33.403	15.083	1.00	28.18	O
ATOM	1170	N	MET	B2037	-16.169	31.990	15.604	1.00	29.30	N
ATOM	1171	CA	MET	B2037	-16.800	32.038	14.283	1.00	30.55	C
ATOM	1172	CB	MET	B2037	-17.984	31.069	14.211	1.00	30.95	C
ATOM	1173	CG	MET	B2037	-17.607	29.662	13.809	1.00	31.93	C
ATOM	1174	SD	MET	B2037	-16.851	29.650	12.173	1.00	33.36	S
ATOM	1175	CE	MET	B2037	-18.331	29.638	11.166	1.00	32.65	C
ATOM	1176	C	MET	B2037	-17.286	33.436	13.934	1.00	31.15	C
ATOM	1177	O	MET	B2037	-17.206	33.854	12.785	1.00	30.76	O
ATOM	1178	N	GLU	B2038	-17.789	34.153	14.934	1.00	32.42	N
ATOM	1179	CA	GLU	B2038	-18.278	35.513	14.730	1.00	33.88	C
ATOM	1180	CB	GLU	B2038	-18.841	36.062	16.044	1.00	35.07	C
ATOM	1181	CG	GLU	B2038	-19.432	37.455	15.931	1.00	37.91	C
ATOM	1182	CD	GLU	B2038	-20.528	37.714	16.955	1.00	39.72	C
ATOM	1183	OE1	GLU	B2038	-21.587	37.050	16.864	1.00	40.71	O
ATOM	1184	OE2	GLU	B2038	-20.333	38.576	17.846	1.00	40.42	O
ATOM	1185	C	GLU	B2038	-17.163	36.418	14.198	1.00	34.07	C
ATOM	1186	O	GLU	B2038	-17.406	37.320	13.397	1.00	33.98	O
ATOM	1187	N	ARG	B2039	-15.936	36.181	14.649	1.00	34.44	N
ATOM	1188	CA	ARG	B2039	-14.810	36.972	14.179	1.00	35.18	C
ATOM	1189	CB	ARG	B2039	-13.630	36.856	15.153	1.00	35.30	C
ATOM	1190	CG	ARG	B2039	-12.370	37.601	14.720	1.00	35.26	C
ATOM	1191	CD	ARG	B2039	-12.590	39.099	14.608	0.05	35.23	C
ATOM	1192	NE	ARG	B2039	-11.358	39.788	14.235	0.05	35.24	N
ATOM	1193	CZ	ARG	B2039	-11.260	41.099	14.040	0.05	35.24	C
ATOM	1194	NH1	ARG	B2039	-10.095	41.634	13.703	0.05	35.27	N
ATOM	1195	NH2	ARG	B2039	-12.325	41.875	14.182	0.05	35.27	N
ATOM	1196	C	ARG	B2039	-14.418	36.445	12.797	1.00	35.34	C
ATOM	1197	O	ARG	B2039	-14.167	37.217	11.868	1.00	35.66	O
ATOM	1198	N	PHE	B2040	-14.382	35.123	12.673	1.00	35.29	N
ATOM	1199	CA	PHE	B2040	-14.042	34.473	11.414	1.00	35.77	C
ATOM	1200	CB	PHE	B2040	-14.241	32.961	11.545	1.00	34.55	C
ATOM	1201	CG	PHE	B2040	-13.996	32.201	10.271	1.00	33.98	C
ATOM	1202	CD1	PHE	B2040	-12.716	32.122	9.725	1.00	33.52	C
ATOM	1203	CD2	PHE	B2040	-15.045	31.564	9.614	1.00	33.68	C
ATOM	1204	CE1	PHE	B2040	-12.488	31.420	8.548	1.00	33.41	C
ATOM	1205	CE2	PHE	B2040	-14.828	30.861	8.435	1.00	33.27	C
ATOM	1206	CZ	PHE	B2040	-13.549	30.787	7.899	1.00	33.46	C
ATOM	1207	C	PHE	B2040	-14.916	34.997	10.268	1.00	36.68	C
ATOM	1208	O	PHE	B2040	-14.445	35.199	9.144	1.00	36.38	O
ATOM	1209	N	THR	B2041	-16.191	35.221	10.561	1.00	37.87	N
ATOM	1210	CA	THR	B2041	-17.121	35.692	9.546	1.00	39.25	C
ATOM	1211	CB	THR	B2041	-18.580	35.450	9.981	1.00	39.24	C
ATOM	1212	OG1	THR	B2041	-18.811	34.041	10.115	1.00	39.45	O
ATOM	1213	CG2	THR	B2041	-19.540	36.001	8.943	1.00	40.16	C
ATOM	1214	C	THR	B2041	-16.947	37.159	9.159	1.00	39.72	C
ATOM	1215	O	THR	B2041	-17.496	37.598	8.157	1.00	40.46	O
ATOM	1216	N	SER	B2042	-16.175	37.915	9.930	1.00	40.14	N

ATOM	1217	CA	SER	B2042	-15.970	39.327	9.609	1.00	40.54	C
ATOM	1218	CB	SER	B2042	-16.159	40.184	10.858	1.00	40.81	C
ATOM	1219	OG	SER	B2042	-17.449	39.989	11.399	1.00	42.55	O
ATOM	1220	C	SER	B2042	-14.588	39.596	9.033	1.00	40.43	C
ATOM	1221	O	SER	B2042	-14.039	40.686	9.218	1.00	40.73	O
ATOM	1222	N	LEU	B2043	-14.031	38.615	8.327	1.00	39.91	N
ATOM	1223	CA	LEU	B2043	-12.698	38.764	7.758	1.00	39.34	C
ATOM	1224	CB	LEU	B2043	-11.663	38.115	8.683	1.00	38.78	C
ATOM	1225	CG	LEU	B2043	-11.484	38.654	10.105	1.00	38.39	C
ATOM	1226	CD1	LEU	B2043	-10.642	37.666	10.913	1.00	37.70	C
ATOM	1227	CD2	LEU	B2043	-10.822	40.035	10.075	1.00	37.83	C
ATOM	1228	C	LEU	B2043	-12.555	38.165	6.360	1.00	39.45	C
ATOM	1229	O	LEU	B2043	-11.502	38.317	5.732	1.00	39.47	O
ATOM	1230	N	LYS	B2044	-13.594	37.478	5.884	1.00	38.98	N
ATOM	1231	CA	LYS	B2044	-13.569	36.850	4.556	1.00	38.77	C
ATOM	1232	CB	LYS	B2044	-14.875	37.145	3.807	1.00	39.18	C
ATOM	1233	CG	LYS	B2044	-14.988	36.486	2.442	0.05	38.97	C
ATOM	1234	CD	LYS	B2044	-15.072	34.973	2.556	0.05	38.99	C
ATOM	1235	CE	LYS	B2044	-15.263	34.332	1.191	0.05	38.96	C
ATOM	1236	NZ	LYS	B2044	-15.382	32.851	1.284	0.05	38.96	N
ATOM	1237	C	LYS	B2044	-12.383	37.340	3.720	1.00	38.31	C
ATOM	1238	O	LYS	B2044	-12.253	38.538	3.458	1.00	38.14	O
ATOM	1239	N	GLY	B2045	-11.522	36.412	3.310	1.00	37.92	N
ATOM	1240	CA	GLY	B2045	-10.351	36.767	2.521	1.00	36.95	C
ATOM	1241	C	GLY	B2045	-9.108	36.124	3.108	1.00	36.64	C
ATOM	1242	O	GLY	B2045	-9.207	35.141	3.845	1.00	37.08	O
ATOM	1243	N	ARG	B2046	-7.935	36.665	2.807	1.00	35.68	N
ATOM	1244	CA	ARG	B2046	-6.703	36.084	3.332	1.00	35.35	C
ATOM	1245	CB	ARG	B2046	-5.476	36.804	2.750	1.00	35.15	C
ATOM	1246	CG	ARG	B2046	-4.150	36.148	3.087	0.05	35.14	C
ATOM	1247	CD	ARG	B2046	-4.081	34.743	2.515	0.05	35.11	C
ATOM	1248	NE	ARG	B2046	-2.811	34.090	2.811	0.05	35.11	N
ATOM	1249	CZ	ARG	B2046	-2.504	32.853	2.436	0.05	35.09	C
ATOM	1250	NH1	ARG	B2046	-1.323	32.338	2.748	0.05	35.09	N
ATOM	1251	NH2	ARG	B2046	-3.377	32.130	1.748	0.05	35.07	N
ATOM	1252	C	ARG	B2046	-6.661	36.147	4.859	1.00	34.86	C
ATOM	1253	O	ARG	B2046	-6.273	35.184	5.522	1.00	34.07	O
ATOM	1254	N	ARG	B2047	-7.068	37.289	5.407	1.00	34.76	N
ATOM	1255	CA	ARG	B2047	-7.074	37.503	6.852	1.00	35.00	C
ATOM	1256	CB	ARG	B2047	-7.559	38.918	7.156	1.00	35.75	C
ATOM	1257	CG	ARG	B2047	-6.762	39.984	6.434	1.00	37.57	C
ATOM	1258	CD	ARG	B2047	-7.345	41.342	6.697	1.00	39.01	C
ATOM	1259	NE	ARG	B2047	-8.743	41.398	6.289	1.00	40.76	N
ATOM	1260	CZ	ARG	B2047	-9.663	42.124	6.915	1.00	41.64	C
ATOM	1261	NH1	ARG	B2047	-9.322	42.852	7.974	1.00	41.91	N
ATOM	1262	NH2	ARG	B2047	-10.924	42.110	6.497	1.00	42.15	N
ATOM	1263	C	ARG	B2047	-7.959	36.483	7.566	1.00	34.24	C
ATOM	1264	O	ARG	B2047	-7.681	36.070	8.692	1.00	34.10	O
ATOM	1265	N	GLN	B2048	-9.030	36.085	6.900	1.00	33.32	N
ATOM	1266	CA	GLN	B2048	-9.944	35.112	7.460	1.00	32.27	C
ATOM	1267	CB	GLN	B2048	-11.138	34.961	6.531	1.00	32.92	C
ATOM	1268	CG	GLN	B2048	-12.281	34.193	7.115	1.00	33.21	C
ATOM	1269	CD	GLN	B2048	-13.323	33.871	6.077	1.00	33.65	C
ATOM	1270	OE1	GLN	B2048	-13.016	33.274	5.044	1.00	34.07	O
ATOM	1271	NE2	GLN	B2048	-14.567	34.258	6.343	1.00	33.98	N
ATOM	1272	C	GLN	B2048	-9.224	33.772	7.620	1.00	31.20	C
ATOM	1273	O	GLN	B2048	-9.402	33.075	8.615	1.00	30.73	O

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ATOM	1274	N	ILE	B2049	-8.405	33.419	6.634	1.00	29.96	N
ATOM	1275	CA	ILE	B2049	-7.661	32.170	6.682	1.00	28.94	C
ATOM	1276	CB	ILE	B2049	-7.007	31.856	5.313	1.00	28.51	C
ATOM	1277	CG2	ILE	B2049	-6.069	30.658	5.438	1.00	27.59	C
ATOM	1278	CG1	ILE	B2049	-8.096	31.573	4.267	1.00	28.47	C
ATOM	1279	CD1	ILE	B2049	-8.950	30.333	4.553	1.00	27.80	C
ATOM	1280	C	ILE	B2049	-6.574	32.198	7.759	1.00	28.73	C
ATOM	1281	O	ILE	B2049	-6.353	31.206	8.463	1.00	28.34	O
ATOM	1282	N	GLU	B2050	-5.896	33.336	7.879	1.00	28.38	N
ATOM	1283	CA	GLU	B2050	-4.833	33.494	8.859	1.00	28.07	C
ATOM	1284	CB	GLU	B2050	-4.151	34.848	8.665	1.00	29.65	C
ATOM	1285	CG	GLU	B2050	-3.799	35.103	7.200	1.00	32.92	C
ATOM	1286	CD	GLU	B2050	-2.865	36.279	6.995	1.00	34.62	C
ATOM	1287	OE1	GLU	B2050	-3.232	37.416	7.392	1.00	35.24	O
ATOM	1288	OE2	GLU	B2050	-1.762	36.055	6.430	1.00	35.19	O
ATOM	1289	C	GLU	B2050	-5.416	33.374	10.260	1.00	26.78	C
ATOM	1290	O	GLU	B2050	-4.812	32.768	11.150	1.00	26.09	O
ATOM	1291	N	TYR	B2051	-6.600	33.944	10.453	1.00	25.41	N
ATOM	1292	CA	TYR	B2051	-7.251	33.868	11.749	1.00	24.34	C
ATOM	1293	CB	TYR	B2051	-8.535	34.703	11.741	1.00	23.37	C
ATOM	1294	CG	TYR	B2051	-9.316	34.618	13.024	1.00	22.77	C
ATOM	1295	CD1	TYR	B2051	-10.347	33.695	13.169	1.00	22.86	C
ATOM	1296	CE1	TYR	B2051	-11.026	33.559	14.369	1.00	23.29	C
ATOM	1297	CD2	TYR	B2051	-8.984	35.413	14.116	1.00	22.81	C
ATOM	1298	CE2	TYR	B2051	-9.657	35.284	15.332	1.00	23.14	C
ATOM	1299	CZ	TYR	B2051	-10.677	34.350	15.450	1.00	23.43	C
ATOM	1300	OH	TYR	B2051	-11.332	34.186	16.649	1.00	23.03	O
ATOM	1301	C	TYR	B2051	-7.550	32.400	12.086	1.00	24.05	C
ATOM	1302	O	TYR	B2051	-7.176	31.910	13.154	1.00	24.52	O
ATOM	1303	N	LEU	B2052	-8.211	31.700	11.170	1.00	23.25	N
ATOM	1304	CA	LEU	B2052	-8.541	30.291	11.364	1.00	22.91	C
ATOM	1305	CB	LEU	B2052	-9.274	29.748	10.133	1.00	22.55	C
ATOM	1306	CG	LEU	B2052	-9.598	28.247	10.086	1.00	22.85	C
ATOM	1307	CD1	LEU	B2052	-10.345	27.814	11.343	1.00	21.95	C
ATOM	1308	CD2	LEU	B2052	-10.436	27.957	8.835	1.00	22.89	C
ATOM	1309	C	LEU	B2052	-7.284	29.457	11.622	1.00	22.68	C
ATOM	1310	O	LEU	B2052	-7.232	28.681	12.571	1.00	22.94	O
ATOM	1311	N	ALA	B2053	-6.285	29.612	10.761	1.00	22.31	N
ATOM	1312	CA	ALA	B2053	-5.024	28.897	10.884	1.00	21.99	C
ATOM	1313	CB	ALA	B2053	-4.072	29.332	9.774	1.00	21.32	C
ATOM	1314	C	ALA	B2053	-4.397	29.180	12.244	1.00	22.13	C
ATOM	1315	O	ALA	B2053	-3.805	28.295	12.868	1.00	21.87	O
ATOM	1316	N	GLY	B2054	-4.532	30.427	12.688	1.00	21.95	N
ATOM	1317	CA	GLY	B2054	-3.981	30.829	13.963	1.00	21.46	C
ATOM	1318	C	GLY	B2054	-4.654	30.111	15.107	1.00	21.35	C
ATOM	1319	O	GLY	B2054	-3.986	29.678	16.049	1.00	21.19	O
ATOM	1320	N	ARG	B2055	-5.974	29.976	15.040	1.00	20.89	N
ATOM	1321	CA	ARG	B2055	-6.681	29.290	16.114	1.00	20.89	C
ATOM	1322	CB	ARG	B2055	-8.191	29.543	16.034	1.00	20.27	C
ATOM	1323	CG	ARG	B2055	-8.685	30.688	16.934	1.00	19.89	C
ATOM	1324	CD	ARG	B2055	-7.926	31.986	16.664	1.00	20.08	C
ATOM	1325	NE	ARG	B2055	-8.265	33.046	17.609	1.00	19.79	N
ATOM	1326	CZ	ARG	B2055	-7.634	34.216	17.668	1.00	20.91	C
ATOM	1327	NH1	ARG	B2055	-6.626	34.473	16.832	1.00	20.64	N
ATOM	1328	NH2	ARG	B2055	-8.009	35.135	18.555	1.00	20.13	N
ATOM	1329	C	ARG	B2055	-6.383	27.796	16.086	1.00	20.73	C
ATOM	1330	O	ARG	B2055	-6.239	27.169	17.136	1.00	20.29	O

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ATOM	1331	N	TRP	B2056	-6.273	27.235	14.884	1.00	20.69	N
ATOM	1332	CA	TRP	B2056	-5.976	25.817	14.742	1.00	20.72	C
ATOM	1333	CB	TRP	B2056	-5.992	25.408	13.262	1.00	21.90	C
ATOM	1334	CG	TRP	B2056	-5.402	24.051	13.020	1.00	23.77	C
ATOM	1335	CD2	TRP	B2056	-6.116	22.814	12.903	1.00	24.30	C
ATOM	1336	CE2	TRP	B2056	-5.151	21.780	12.814	1.00	24.91	C
ATOM	1337	CE3	TRP	B2056	-7.473	22.478	12.869	1.00	24.91	C
ATOM	1338	CD1	TRP	B2056	-4.065	23.727	12.983	1.00	23.97	C
ATOM	1339	NE1	TRP	B2056	-3.912	22.365	12.864	1.00	24.86	N
ATOM	1340	CZ2	TRP	B2056	-5.505	20.429	12.697	1.00	25.50	C
ATOM	1341	CZ3	TRP	B2056	-7.829	21.131	12.751	1.00	26.26	C
ATOM	1342	CH2	TRP	B2056	-6.843	20.122	12.667	1.00	26.22	C
ATOM	1343	C	TRP	B2056	-4.603	25.547	15.348	1.00	20.41	C
ATOM	1344	O	TRP	B2056	-4.409	24.582	16.093	1.00	20.04	O
ATOM	1345	N	SER	B2057	-3.654	26.415	15.025	1.00	19.64	N
ATOM	1346	CA	SER	B2057	-2.298	26.282	15.533	1.00	19.83	C
ATOM	1347	CB	SER	B2057	-1.395	27.339	14.898	1.00	20.26	C
ATOM	1348	OG	SER	B2057	-0.057	27.136	15.303	1.00	22.97	O
ATOM	1349	C	SER	B2057	-2.239	26.402	17.062	1.00	18.86	C
ATOM	1350	O	SER	B2057	-1.548	25.636	17.725	1.00	18.27	O
ATOM	1351	N	ALA	B2058	-2.968	27.367	17.613	1.00	18.16	N
ATOM	1352	CA	ALA	B2058	-2.996	27.566	19.058	1.00	17.01	C
ATOM	1353	CB	ALA	B2058	-3.767	28.826	19.388	1.00	16.89	C
ATOM	1354	C	ALA	B2058	-3.623	26.365	19.781	1.00	16.76	C
ATOM	1355	O	ALA	B2058	-3.087	25.890	20.783	1.00	15.81	O
ATOM	1356	N	LYS	B2059	-4.755	25.884	19.272	1.00	16.40	N
ATOM	1357	CA	LYS	B2059	-5.446	24.746	19.883	1.00	17.29	C
ATOM	1358	CB	LYS	B2059	-6.815	24.547	19.217	1.00	16.13	C
ATOM	1359	CG	LYS	B2059	-7.751	25.730	19.498	1.00	15.32	C
ATOM	1360	CD	LYS	B2059	-9.168	25.536	18.996	1.00	14.90	C
ATOM	1361	CE	LYS	B2059	-10.011	26.783	19.319	1.00	13.82	C
ATOM	1362	NZ	LYS	B2059	-11.432	26.637	18.937	1.00	11.65	N
ATOM	1363	C	LYS	B2059	-4.620	23.464	19.826	1.00	17.91	C
ATOM	1364	O	LYS	B2059	-4.640	22.656	20.748	1.00	16.96	O
ATOM	1365	N	GLU	B2060	-3.879	23.293	18.738	1.00	19.43	N
ATOM	1366	CA	GLU	B2060	-3.043	22.123	18.585	1.00	20.86	C
ATOM	1367	CB	GLU	B2060	-2.516	22.046	17.146	1.00	22.77	C
ATOM	1368	CG	GLU	B2060	-1.964	20.691	16.759	1.00	26.37	C
ATOM	1369	CD	GLU	B2060	-2.982	19.574	16.959	1.00	29.21	C
ATOM	1370	OE1	GLU	B2060	-4.047	19.602	16.287	1.00	29.92	O
ATOM	1371	OE2	GLU	B2060	-2.720	18.670	17.795	1.00	30.31	O
ATOM	1372	C	GLU	B2060	-1.889	22.256	19.593	1.00	20.86	C
ATOM	1373	O	GLU	B2060	-1.556	21.302	20.307	1.00	20.96	O
ATOM	1374	N	ALA	B2061	-1.299	23.447	19.661	1.00	20.25	N
ATOM	1375	CA	ALA	B2061	-0.191	23.697	20.580	1.00	20.38	C
ATOM	1376	CB	ALA	B2061	0.348	25.139	20.411	1.00	19.50	C
ATOM	1377	C	ALA	B2061	-0.655	23.464	22.015	1.00	20.28	C
ATOM	1378	O	ALA	B2061	0.103	22.952	22.841	1.00	20.05	O
ATOM	1379	N	PHE	B2062	-1.896	23.832	22.313	1.00	20.49	N
ATOM	1380	CA	PHE	B2062	-2.419	23.620	23.659	1.00	21.41	C
ATOM	1381	CB	PHE	B2062	-3.738	24.382	23.880	1.00	21.26	C
ATOM	1382	CG	PHE	B2062	-4.350	24.142	25.242	1.00	21.63	C
ATOM	1383	CD1	PHE	B2062	-5.134	23.015	25.481	1.00	21.14	C
ATOM	1384	CD2	PHE	B2062	-4.092	25.009	26.297	1.00	21.77	C
ATOM	1385	CE1	PHE	B2062	-5.646	22.756	26.745	1.00	21.47	C
ATOM	1386	CE2	PHE	B2062	-4.603	24.757	27.576	1.00	22.09	C
ATOM	1387	CZ	PHE	B2062	-5.382	23.627	27.799	1.00	21.52	C

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ATOM	1388	C	PHE	B2062	-2.630	22.133	23.938	1.00	22.03	C
ATOM	1389	O	PHE	B2062	-2.303	21.655	25.022	1.00	22.28	O
ATOM	1390	N	SER	B2063	-3.183	21.406	22.970	1.00	22.94	N
ATOM	1391	CA	SER	B2063	-3.403	19.972	23.135	1.00	24.34	C
ATOM	1392	CB	SER	B2063	-4.120	19.379	21.921	1.00	24.96	C
ATOM	1393	OG	SER	B2063	-5.510	19.618	21.995	1.00	26.96	O
ATOM	1394	C	SER	B2063	-2.089	19.231	23.338	1.00	24.82	C
ATOM	1395	O	SER	B2063	-2.053	18.192	23.989	1.00	24.78	O
ATOM	1396	N	LYS	B2064	-1.010	19.754	22.778	1.00	24.97	N
ATOM	1397	CA	LYS	B2064	0.266	19.091	22.952	1.00	26.19	C
ATOM	1398	CB	LYS	B2064	1.201	19.454	21.802	1.00	25.92	C
ATOM	1399	CG	LYS	B2064	0.723	18.846	20.496	1.00	26.10	C
ATOM	1400	CD	LYS	B2064	1.437	19.406	19.293	1.00	26.40	C
ATOM	1401	CE	LYS	B2064	2.890	19.016	19.272	1.00	25.79	C
ATOM	1402	NZ	LYS	B2064	3.444	19.339	17.935	1.00	26.57	N
ATOM	1403	C	LYS	B2064	0.860	19.447	24.312	1.00	27.18	C
ATOM	1404	O	LYS	B2064	1.443	18.593	24.978	1.00	27.11	O
ATOM	1405	N	ALA	B2065	0.680	20.696	24.734	1.00	28.10	N
ATOM	1406	CA	ALA	B2065	1.175	21.142	26.030	1.00	29.62	C
ATOM	1407	CB	ALA	B2065	0.851	22.617	26.241	1.00	29.09	C
ATOM	1408	C	ALA	B2065	0.520	20.309	27.128	1.00	30.86	C
ATOM	1409	O	ALA	B2065	1.121	20.062	28.170	1.00	30.13	O
ATOM	1410	N	MET	B2066	-0.721	19.890	26.892	1.00	32.95	N
ATOM	1411	CA	MET	B2066	-1.449	19.079	27.866	1.00	35.41	C
ATOM	1412	CB	MET	B2066	-2.957	19.167	27.626	1.00	35.78	C
ATOM	1413	CG	MET	B2066	-3.588	20.479	28.047	1.00	36.88	C
ATOM	1414	SD	MET	B2066	-3.734	20.673	29.828	1.00	38.18	S
ATOM	1415	CE	MET	B2066	-5.497	20.288	30.048	1.00	38.92	C
ATOM	1416	C	MET	B2066	-1.010	17.621	27.783	1.00	36.81	C
ATOM	1417	O	MET	B2066	-1.414	16.797	28.595	1.00	36.82	O
ATOM	1418	N	GLY	B2067	-0.178	17.311	26.798	1.00	38.52	N
ATOM	1419	CA	GLY	B2067	0.292	15.950	26.644	1.00	41.07	C
ATOM	1420	C	GLY	B2067	-0.794	14.998	26.187	1.00	42.84	C
ATOM	1421	O	GLY	B2067	-1.321	14.214	26.979	1.00	43.50	O
ATOM	1422	N	THR	B2068	-1.140	15.077	24.908	1.00	44.30	N
ATOM	1423	CA	THR	B2068	-2.152	14.206	24.322	1.00	45.93	C
ATOM	1424	CB	THR	B2068	-3.410	14.994	23.903	1.00	45.92	C
ATOM	1425	OG1	THR	B2068	-3.075	15.921	22.861	1.00	46.12	O
ATOM	1426	CG2	THR	B2068	-3.972	15.758	25.093	1.00	46.09	C
ATOM	1427	C	THR	B2068	-1.501	13.593	23.088	1.00	47.07	C
ATOM	1428	O	THR	B2068	-2.151	12.918	22.287	1.00	47.09	O
ATOM	1429	N	GLY	B2069	-0.202	13.862	22.957	1.00	48.53	N
ATOM	1430	CA	GLY	B2069	0.599	13.356	21.853	1.00	49.83	C
ATOM	1431	C	GLY	B2069	-0.085	13.307	20.503	1.00	50.67	C
ATOM	1432	O	GLY	B2069	-0.047	14.274	19.741	1.00	51.10	O
ATOM	1433	N	ILE	B2070	-0.699	12.166	20.208	1.00	51.17	N
ATOM	1434	CA	ILE	B2070	-1.405	11.948	18.952	1.00	51.53	C
ATOM	1435	CB	ILE	B2070	-1.574	10.427	18.668	1.00	51.94	C
ATOM	1436	CG2	ILE	B2070	-0.221	9.804	18.341	1.00	51.87	C
ATOM	1437	CG1	ILE	B2070	-2.217	9.737	19.882	1.00	52.15	C
ATOM	1438	CD1	ILE	B2070	-2.470	8.249	19.712	1.00	52.43	C
ATOM	1439	C	ILE	B2070	-2.792	12.590	18.979	1.00	51.42	C
ATOM	1440	O	ILE	B2070	-3.074	13.534	18.232	1.00	51.57	O
ATOM	1441	N	SER	B2071	-3.653	12.068	19.847	1.00	51.02	N
ATOM	1442	CA	SER	B2071	-5.013	12.566	19.967	1.00	50.61	C
ATOM	1443	CB	SER	B2071	-5.803	11.680	20.938	1.00	50.61	C
ATOM	1444	OG	SER	B2071	-5.007	11.299	22.044	1.00	50.73	O

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ATOM	1445	C	SER	B2071	-5.064	14.030	20.404	1.00	50.07	C
ATOM	1446	O	SER	B2071	-4.042	14.625	20.771	1.00	49.91	O
ATOM	1447	N	LYS	B2072	-6.258	14.612	20.340	1.00	49.03	N
ATOM	1448	CA	LYS	B2072	-6.440	16.004	20.728	1.00	47.71	C
ATOM	1449	CB	LYS	B2072	-6.637	16.898	19.495	1.00	48.58	C
ATOM	1450	CG	LYS	B2072	-5.733	16.597	18.312	1.00	49.59	C
ATOM	1451	CD	LYS	B2072	-6.215	17.358	17.087	1.00	50.30	C
ATOM	1452	CE	LYS	B2072	-5.500	16.909	15.820	1.00	50.97	C
ATOM	1453	NZ	LYS	B2072	-6.051	17.588	14.610	1.00	51.33	N
ATOM	1454	C	LYS	B2072	-7.670	16.146	21.610	1.00	46.22	C
ATOM	1455	O	LYS	B2072	-8.484	15.229	21.742	1.00	46.03	O
ATOM	1456	N	LEU	B2073	-7.787	17.322	22.208	1.00	44.70	N
ATOM	1457	CA	LEU	B2073	-8.915	17.658	23.048	1.00	42.68	C
ATOM	1458	CB	LEU	B2073	-8.540	18.812	23.975	1.00	42.47	C
ATOM	1459	CG	LEU	B2073	-7.416	18.504	24.959	1.00	42.08	C
ATOM	1460	CD1	LEU	B2073	-6.916	19.781	25.594	1.00	42.04	C
ATOM	1461	CD2	LEU	B2073	-7.925	17.543	26.010	1.00	42.14	C
ATOM	1462	C	LEU	B2073	-9.999	18.116	22.083	1.00	41.35	C
ATOM	1463	O	LEU	B2073	-9.750	18.273	20.881	1.00	41.21	O
ATOM	1464	N	GLY	B2074	-11.203	18.312	22.595	1.00	39.49	N
ATOM	1465	CA	GLY	B2074	-12.252	18.791	21.727	1.00	37.51	C
ATOM	1466	C	GLY	B2074	-11.852	20.211	21.364	1.00	35.85	C
ATOM	1467	O	GLY	B2074	-11.493	20.998	22.240	1.00	35.43	O
ATOM	1468	N	PHE	B2075	-11.878	20.548	20.082	1.00	33.89	N
ATOM	1469	CA	PHE	B2075	-11.524	21.900	19.704	1.00	32.41	C
ATOM	1470	CB	PHE	B2075	-11.287	21.990	18.194	1.00	32.43	C
ATOM	1471	CG	PHE	B2075	-9.846	21.778	17.802	1.00	32.87	C
ATOM	1472	CD1	PHE	B2075	-8.952	21.151	18.682	1.00	33.28	C
ATOM	1473	CD2	PHE	B2075	-9.379	22.191	16.557	1.00	33.06	C
ATOM	1474	CE1	PHE	B2075	-7.616	20.941	18.326	1.00	33.27	C
ATOM	1475	CE2	PHE	B2075	-8.047	21.987	16.187	1.00	33.20	C
ATOM	1476	CZ	PHE	B2075	-7.163	21.360	17.071	1.00	33.45	C
ATOM	1477	C	PHE	B2075	-12.597	22.877	20.163	1.00	31.04	C
ATOM	1478	O	PHE	B2075	-12.340	24.072	20.277	1.00	30.78	O
ATOM	1479	N	GLN	B2076	-13.787	22.357	20.462	1.00	29.52	N
ATOM	1480	CA	GLN	B2076	-14.897	23.185	20.929	1.00	28.06	C
ATOM	1481	CB	GLN	B2076	-16.226	22.493	20.630	1.00	27.83	C
ATOM	1482	CG	GLN	B2076	-16.489	22.365	19.144	1.00	27.93	C
ATOM	1483	CD	GLN	B2076	-16.666	23.716	18.479	1.00	28.25	C
ATOM	1484	OE1	GLN	B2076	-16.170	23.950	17.376	1.00	28.52	O
ATOM	1485	NE2	GLN	B2076	-17.387	24.613	19.145	1.00	27.92	N
ATOM	1486	C	GLN	B2076	-14.765	23.476	22.423	1.00	27.11	C
ATOM	1487	O	GLN	B2076	-15.536	24.241	23.000	1.00	26.54	O
ATOM	1488	N	ASP	B2077	-13.768	22.860	23.037	1.00	26.23	N
ATOM	1489	CA	ASP	B2077	-13.505	23.059	24.447	1.00	26.09	C
ATOM	1490	CB	ASP	B2077	-13.173	21.721	25.108	1.00	27.19	C
ATOM	1491	CG	ASP	B2077	-14.401	20.856	25.292	1.00	28.36	C
ATOM	1492	OD1	ASP	B2077	-15.304	21.276	26.043	1.00	29.34	O
ATOM	1493	OD2	ASP	B2077	-14.469	19.767	24.686	1.00	29.83	O
ATOM	1494	C	ASP	B2077	-12.354	24.041	24.614	1.00	24.96	C
ATOM	1495	O	ASP	B2077	-11.917	24.328	25.730	1.00	24.58	O
ATOM	1496	N	LEU	B2078	-11.870	24.553	23.490	1.00	23.44	N
ATOM	1497	CA	LEU	B2078	-10.783	25.507	23.502	1.00	22.63	C
ATOM	1498	CB	LEU	B2078	-9.534	24.900	22.868	1.00	22.62	C
ATOM	1499	CG	LEU	B2078	-8.989	23.599	23.468	1.00	22.75	C
ATOM	1500	CD1	LEU	B2078	-7.933	23.010	22.543	1.00	22.77	C
ATOM	1501	CD2	LEU	B2078	-8.401	23.870	24.841	1.00	22.96	C

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ATOM	1502	C	LEU B2078	-11.200	26.741	22.726	1.00	22.37	C
ATOM	1503	O	LEU B2078	-11.709	26.642	21.611	1.00	21.73	O
ATOM	1504	N	GLU B2079	-11.001	27.908	23.324	1.00	21.99	N
ATOM	1505	CA	GLU B2079	-11.342	29.145	22.648	1.00	21.60	C
ATOM	1506	CB	GLU B2079	-12.624	29.740	23.214	1.00	21.69	C
ATOM	1507	CG	GLU B2079	-13.132	30.922	22.421	1.00	22.30	C
ATOM	1508	CD	GLU B2079	-14.459	31.412	22.937	1.00	23.08	C
ATOM	1509	OE1	GLU B2079	-14.499	31.893	24.089	1.00	24.19	O
ATOM	1510	OE2	GLU B2079	-15.462	31.311	22.201	1.00	22.86	O
ATOM	1511	C	GLU B2079	-10.216	30.144	22.792	1.00	21.14	C
ATOM	1512	O	GLU B2079	-9.606	30.265	23.862	1.00	21.43	O
ATOM	1513	N	VAL B2080	-9.940	30.852	21.705	1.00	20.42	N
ATOM	1514	CA	VAL B2080	-8.892	31.850	21.691	1.00	20.15	C
ATOM	1515	CB	VAL B2080	-7.728	31.418	20.780	1.00	19.96	C
ATOM	1516	CG1	VAL B2080	-6.662	32.517	20.735	1.00	19.66	C
ATOM	1517	CG2	VAL B2080	-7.127	30.123	21.297	1.00	19.86	C
ATOM	1518	C	VAL B2080	-9.436	33.187	21.211	1.00	20.63	C
ATOM	1519	O	VAL B2080	-9.899	33.320	20.075	1.00	20.55	O
ATOM	1520	N	LEU B2081	-9.379	34.178	22.089	1.00	20.91	N
ATOM	1521	CA	LEU B2081	-9.852	35.515	21.767	1.00	21.71	C
ATOM	1522	CB	LEU B2081	-10.913	35.953	22.779	1.00	21.41	C
ATOM	1523	CG	LEU B2081	-12.150	35.049	22.846	1.00	21.70	C
ATOM	1524	CD1	LEU B2081	-13.145	35.618	23.864	1.00	20.86	C
ATOM	1525	CD2	LEU B2081	-12.788	34.947	21.451	1.00	20.91	C
ATOM	1526	C	LEU B2081	-8.690	36.488	21.802	1.00	21.95	C
ATOM	1527	O	LEU B2081	-7.592	36.135	22.255	1.00	22.11	O
ATOM	1528	N	ASN B2082	-8.927	37.700	21.302	1.00	22.09	N
ATOM	1529	CA	ASN B2082	-7.912	38.754	21.334	1.00	22.53	C
ATOM	1530	CB	ASN B2082	-7.809	39.483	19.992	1.00	23.53	C
ATOM	1531	CG	ASN B2082	-7.347	38.588	18.882	1.00	24.84	C
ATOM	1532	OD1	ASN B2082	-6.350	37.880	19.016	1.00	25.89	O
ATOM	1533	ND2	ASN B2082	-8.066	38.613	17.766	1.00	26.27	N
ATOM	1534	C	ASN B2082	-8.345	39.754	22.402	1.00	22.18	C
ATOM	1535	O	ASN B2082	-9.528	40.069	22.514	1.00	21.35	O
ATOM	1536	N	ASN B2083	-7.391	40.244	23.186	1.00	22.35	N
ATOM	1537	CA	ASN B2083	-7.699	41.215	24.227	1.00	22.53	C
ATOM	1538	CB	ASN B2083	-6.711	41.092	25.391	1.00	21.65	C
ATOM	1539	CG	ASN B2083	-5.267	41.394	24.995	1.00	21.91	C
ATOM	1540	OD1	ASN B2083	-4.338	41.115	25.762	1.00	22.04	O
ATOM	1541	ND2	ASN B2083	-5.068	41.963	23.808	1.00	20.96	N
ATOM	1542	C	ASN B2083	-7.679	42.632	23.663	1.00	23.31	C
ATOM	1543	O	ASN B2083	-7.344	42.834	22.493	1.00	23.42	O
ATOM	1544	N	GLU B2084	-8.037	43.605	24.498	1.00	23.94	N
ATOM	1545	CA	GLU B2084	-8.062	45.012	24.098	1.00	24.84	C
ATOM	1546	CB	GLU B2084	-8.089	45.924	25.336	1.00	26.09	C
ATOM	1547	CG	GLU B2084	-9.171	45.622	26.355	1.00	28.21	C
ATOM	1548	CD	GLU B2084	-8.992	44.259	27.014	1.00	30.57	C
ATOM	1549	OE1	GLU B2084	-7.892	44.001	27.565	1.00	31.38	O
ATOM	1550	OE2	GLU B2084	-9.952	43.448	26.984	1.00	31.36	O
ATOM	1551	C	GLU B2084	-6.871	45.421	23.223	1.00	24.40	C
ATOM	1552	O	GLU B2084	-7.033	46.197	22.292	1.00	24.89	O
ATOM	1553	N	ARG B2085	-5.683	44.905	23.530	1.00	24.24	N
ATOM	1554	CA	ARG B2085	-4.464	45.245	22.782	1.00	24.07	C
ATOM	1555	CB	ARG B2085	-3.237	45.139	23.688	1.00	24.81	C
ATOM	1556	CG	ARG B2085	-3.375	45.824	25.022	1.00	26.63	C
ATOM	1557	CD	ARG B2085	-2.090	45.727	25.844	1.00	27.63	C
ATOM	1558	NE	ARG B2085	-2.124	46.668	26.962	1.00	28.81	N

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ATOM	1559	CZ	ARG	B2085	-2.915	46.532	28.016	1.00	29.08	C
ATOM	1560	NH1	ARG	B2085	-3.725	45.489	28.090	1.00	30.38	N
ATOM	1561	NH2	ARG	B2085	-2.915	47.441	28.984	1.00	29.49	N
ATOM	1562	C	ARG	B2085	-4.201	44.386	21.548	1.00	23.45	C
ATOM	1563	O	ARG	B2085	-3.231	44.616	20.839	1.00	23.48	O
ATOM	1564	N	GLY	B2086	-5.043	43.388	21.304	1.00	22.86	N
ATOM	1565	CA	GLY	B2086	-4.845	42.531	20.148	1.00	22.18	C
ATOM	1566	C	GLY	B2086	-4.106	41.231	20.442	1.00	22.02	C
ATOM	1567	O	GLY	B2086	-3.935	40.391	19.557	1.00	22.97	O
ATOM	1568	N	ALA	B2087	-3.658	41.053	21.677	1.00	20.91	N
ATOM	1569	CA	ALA	B2087	-2.948	39.836	22.038	1.00	19.91	C
ATOM	1570	CB	ALA	B2087	-2.196	40.028	23.362	1.00	19.31	C
ATOM	1571	C	ALA	B2087	-3.940	38.675	22.161	1.00	19.35	C
ATOM	1572	O	ALA	B2087	-5.013	38.816	22.757	1.00	18.31	O
ATOM	1573	N	PRO	B2088	-3.598	37.520	21.566	1.00	19.16	N
ATOM	1574	CD	PRO	B2088	-2.449	37.311	20.656	1.00	19.16	C
ATOM	1575	CA	PRO	B2088	-4.450	36.331	21.611	1.00	18.85	C
ATOM	1576	CB	PRO	B2088	-3.968	35.529	20.408	1.00	19.28	C
ATOM	1577	CG	PRO	B2088	-2.478	35.817	20.403	1.00	18.72	C
ATOM	1578	C	PRO	B2088	-4.229	35.597	22.934	1.00	18.76	C
ATOM	1579	O	PRO	B2088	-3.098	35.484	23.404	1.00	18.99	O
ATOM	1580	N	TYR	B2089	-5.310	35.108	23.533	1.00	18.27	N
ATOM	1581	CA	TYR	B2089	-5.230	34.394	24.804	1.00	17.56	C
ATOM	1582	CB	TYR	B2089	-5.394	35.379	25.960	1.00	15.80	C
ATOM	1583	CG	TYR	B2089	-6.792	35.933	26.103	1.00	14.62	C
ATOM	1584	CD1	TYR	B2089	-7.684	35.402	27.036	1.00	14.04	C
ATOM	1585	CE1	TYR	B2089	-8.983	35.916	27.160	1.00	13.45	C
ATOM	1586	CD2	TYR	B2089	-7.231	36.991	25.294	1.00	13.76	C
ATOM	1587	CE2	TYR	B2089	-8.507	37.499	25.405	1.00	12.48	C
ATOM	1588	CZ	TYR	B2089	-9.381	36.964	26.336	1.00	13.07	C
ATOM	1589	OH	TYR	B2089	-10.649	37.475	26.433	1.00	12.87	O
ATOM	1590	C	TYR	B2089	-6.333	33.349	24.865	1.00	18.14	C
ATOM	1591	O	TYR	B2089	-7.302	33.433	24.118	1.00	18.32	O
ATOM	1592	N	PHE	B2090	-6.196	32.360	25.741	1.00	18.75	N
ATOM	1593	CA	PHE	B2090	-7.242	31.350	25.853	1.00	19.41	C
ATOM	1594	CB	PHE	B2090	-6.686	30.012	26.353	1.00	18.52	C
ATOM	1595	CG	PHE	B2090	-6.044	29.187	25.282	1.00	18.19	C
ATOM	1596	CD1	PHE	B2090	-4.716	29.402	24.912	1.00	17.08	C
ATOM	1597	CD2	PHE	B2090	-6.769	28.182	24.638	1.00	17.63	C
ATOM	1598	CE1	PHE	B2090	-4.119	28.626	23.920	1.00	16.47	C
ATOM	1599	CE2	PHE	B2090	-6.177	27.400	23.640	1.00	16.79	C
ATOM	1600	CZ	PHE	B2090	-4.847	27.625	23.284	1.00	16.73	C
ATOM	1601	C	PHE	B2090	-8.334	31.806	26.802	1.00	20.35	C
ATOM	1602	O	PHE	B2090	-8.092	31.963	27.997	1.00	20.62	O
ATOM	1603	N	SER	B2091	-9.535	32.010	26.271	1.00	21.43	N
ATOM	1604	CA	SER	B2091	-10.664	32.430	27.096	1.00	22.72	C
ATOM	1605	CB	SER	B2091	-11.635	33.293	26.278	1.00	22.59	C
ATOM	1606	OG	SER	B2091	-12.173	32.566	25.187	1.00	24.06	O
ATOM	1607	C	SER	B2091	-11.385	31.194	27.651	1.00	23.50	C
ATOM	1608	O	SER	B2091	-12.133	31.289	28.623	1.00	23.39	O
ATOM	1609	N	GLN	B2092	-11.154	30.041	27.024	1.00	24.05	N
ATOM	1610	CA	GLN	B2092	-11.757	28.784	27.458	1.00	25.18	C
ATOM	1611	CB	GLN	B2092	-12.970	28.420	26.591	1.00	26.15	C
ATOM	1612	CG	GLN	B2092	-14.194	29.321	26.733	1.00	28.02	C
ATOM	1613	CD	GLN	B2092	-14.848	29.241	28.105	1.00	29.69	C
ATOM	1614	OE1	GLN	B2092	-14.974	28.159	28.687	1.00	30.83	O
ATOM	1615	NE2	GLN	B2092	-15.283	30.389	28.622	1.00	30.35	N

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ATOM	1616	C	GLN	B2092	-10.725	27.661	27.354	1.00	25.31	C
ATOM	1617	O	GLN	B2092	-10.029	27.541	26.343	1.00	25.18	O
ATOM	1618	N	ALA	B2093	-10.631	26.838	28.395	1.00	25.61	N
ATOM	1619	CA	ALA	B2093	-9.680	25.733	28.394	1.00	26.50	C
ATOM	1620	CB	ALA	B2093	-8.243	26.278	28.384	1.00	25.87	C
ATOM	1621	C	ALA	B2093	-9.876	24.805	29.587	1.00	27.03	C
ATOM	1622	O	ALA	B2093	-10.200	25.252	30.687	1.00	27.16	O
ATOM	1623	N	PRO	B2094	-9.671	23.492	29.382	1.00	27.79	N
ATOM	1624	CD	PRO	B2094	-9.377	22.840	28.090	1.00	27.87	C
ATOM	1625	CA	PRO	B2094	-9.824	22.497	30.452	1.00	28.17	C
ATOM	1626	CB	PRO	B2094	-9.970	21.191	29.681	1.00	27.97	C
ATOM	1627	CG	PRO	B2094	-9.068	21.408	28.501	1.00	27.75	C
ATOM	1628	C	PRO	B2094	-8.611	22.489	31.384	1.00	28.93	C
ATOM	1629	O	PRO	B2094	-8.149	21.429	31.819	1.00	29.42	O
ATOM	1630	N	PHE	B2095	-8.099	23.676	31.690	1.00	29.04	N
ATOM	1631	CA	PHE	B2095	-6.929	23.812	32.551	1.00	28.93	C
ATOM	1632	CB	PHE	B2095	-5.704	24.150	31.689	1.00	28.61	C
ATOM	1633	CG	PHE	B2095	-4.416	24.266	32.460	1.00	28.08	C
ATOM	1634	CD1	PHE	B2095	-3.697	25.457	32.454	1.00	27.74	C
ATOM	1635	CD2	PHE	B2095	-3.918	23.185	33.187	1.00	27.48	C
ATOM	1636	CE1	PHE	B2095	-2.503	25.574	33.158	1.00	27.44	C
ATOM	1637	CE2	PHE	B2095	-2.730	23.292	33.893	1.00	27.21	C
ATOM	1638	CZ	PHE	B2095	-2.018	24.492	33.880	1.00	27.64	C
ATOM	1639	C	PHE	B2095	-7.220	24.934	33.544	1.00	29.17	C
ATOM	1640	O	PHE	B2095	-7.922	25.893	33.211	1.00	29.61	O
ATOM	1641	N	SER	B2096	-6.690	24.821	34.758	1.00	28.80	N
ATOM	1642	CA	SER	B2096	-6.931	25.837	35.771	1.00	28.67	C
ATOM	1643	CB	SER	B2096	-7.374	25.177	37.078	1.00	29.60	C
ATOM	1644	OG	SER	B2096	-8.489	24.328	36.859	1.00	31.74	O
ATOM	1645	C	SER	B2096	-5.719	26.716	36.038	1.00	27.69	C
ATOM	1646	O	SER	B2096	-5.828	27.746	36.700	1.00	27.77	O
ATOM	1647	N	GLY	B2097	-4.563	26.318	35.526	1.00	26.80	N
ATOM	1648	CA	GLY	B2097	-3.370	27.115	35.752	1.00	25.56	C
ATOM	1649	C	GLY	B2097	-3.246	28.268	34.771	1.00	24.43	C
ATOM	1650	O	GLY	B2097	-4.224	28.686	34.155	1.00	23.36	O
ATOM	1651	N	LYS	B2098	-2.032	28.786	34.629	1.00	23.85	N
ATOM	1652	CA	LYS	B2098	-1.786	29.886	33.707	1.00	23.16	C
ATOM	1653	CB	LYS	B2098	-0.656	30.789	34.212	1.00	24.15	C
ATOM	1654	CG	LYS	B2098	-1.025	31.639	35.408	1.00	25.14	C
ATOM	1655	CD	LYS	B2098	0.036	32.693	35.659	1.00	26.88	C
ATOM	1656	CE	LYS	B2098	-0.288	33.524	36.895	1.00	27.83	C
ATOM	1657	NZ	LYS	B2098	-0.224	32.680	38.126	1.00	28.96	N
ATOM	1658	C	LYS	B2098	-1.406	29.332	32.353	1.00	21.88	C
ATOM	1659	O	LYS	B2098	-0.604	28.402	32.261	1.00	21.71	O
ATOM	1660	N	ILE	B2099	-1.997	29.905	31.310	1.00	20.39	N
ATOM	1661	CA	ILE	B2099	-1.723	29.494	29.941	1.00	19.37	C
ATOM	1662	CB	ILE	B2099	-3.027	29.186	29.165	1.00	19.23	C
ATOM	1663	CG2	ILE	B2099	-2.695	28.629	27.779	1.00	18.49	C
ATOM	1664	CG1	ILE	B2099	-3.878	28.182	29.950	1.00	18.74	C
ATOM	1665	CD1	ILE	B2099	-5.199	27.892	29.299	1.00	18.23	C
ATOM	1666	C	ILE	B2099	-0.997	30.621	29.221	1.00	18.65	C
ATOM	1667	O	ILE	B2099	-1.570	31.683	28.973	1.00	18.86	O
ATOM	1668	N	TRP	B2100	0.273	30.401	28.907	1.00	17.78	N
ATOM	1669	CA	TRP	B2100	1.043	31.407	28.195	1.00	17.08	C
ATOM	1670	CB	TRP	B2100	2.477	31.487	28.735	1.00	15.80	C
ATOM	1671	CG	TRP	B2100	2.533	31.922	30.180	1.00	15.68	C
ATOM	1672	CD2	TRP	B2100	2.423	33.264	30.679	1.00	15.05	C

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ATOM	1673	CE2	TRP	B2100	2.466	33.189	32.093	1.00	15.31	C
ATOM	1674	CE3	TRP	B2100	2.289	34.522	30.070	1.00	15.15	C
ATOM	1675	CD1	TRP	B2100	2.636	31.111	31.284	1.00	15.45	C
ATOM	1676	NE1	TRP	B2100	2.595	31.868	32.432	1.00	15.26	N
ATOM	1677	CZ2	TRP	B2100	2.384	34.328	32.912	1.00	15.02	C
ATOM	1678	CZ3	TRP	B2100	2.204	35.658	30.883	1.00	15.47	C
ATOM	1679	CH2	TRP	B2100	2.253	35.548	32.291	1.00	15.54	C
ATOM	1680	C	TRP	B2100	1.027	31.028	26.723	1.00	17.16	C
ATOM	1681	O	TRP	B2100	1.627	30.041	26.311	1.00	17.52	O
ATOM	1682	N	LEU	B2101	0.314	31.821	25.937	1.00	17.56	N
ATOM	1683	CA	LEU	B2101	0.180	31.575	24.508	1.00	17.56	C
ATOM	1684	CB	LEU	B2101	-1.304	31.454	24.137	1.00	17.63	C
ATOM	1685	CG	LEU	B2101	-1.641	31.497	22.635	1.00	18.34	C
ATOM	1686	CD1	LEU	B2101	-1.241	30.157	21.964	1.00	17.98	C
ATOM	1687	CD2	LEU	B2101	-3.132	31.768	22.444	1.00	17.63	C
ATOM	1688	C	LEU	B2101	0.789	32.685	23.681	1.00	17.40	C
ATOM	1689	O	LEU	B2101	0.770	33.849	24.075	1.00	17.23	O
ATOM	1690	N	SER	B2102	1.332	32.312	22.529	1.00	17.67	N
ATOM	1691	CA	SER	B2102	1.892	33.274	21.602	1.00	17.46	C
ATOM	1692	CB	SER	B2102	3.366	33.551	21.892	1.00	17.36	C
ATOM	1693	OG	SER	B2102	3.797	34.687	21.150	1.00	17.27	O
ATOM	1694	C	SER	B2102	1.731	32.739	20.185	1.00	17.83	C
ATOM	1695	O	SER	B2102	1.984	31.563	19.919	1.00	17.13	O
ATOM	1696	N	ILE	B2103	1.286	33.616	19.288	1.00	18.64	N
ATOM	1697	CA	ILE	B2103	1.084	33.270	17.888	1.00	19.37	C
ATOM	1698	CB	ILE	B2103	-0.429	33.275	17.515	1.00	19.72	C
ATOM	1699	CG2	ILE	B2103	-0.625	32.778	16.079	1.00	19.83	C
ATOM	1700	CG1	ILE	B2103	-1.213	32.382	18.480	1.00	20.18	C
ATOM	1701	CD1	ILE	B2103	-2.722	32.470	18.314	1.00	20.28	C
ATOM	1702	C	ILE	B2103	1.813	34.299	17.014	1.00	19.77	C
ATOM	1703	O	ILE	B2103	1.857	35.489	17.330	1.00	18.81	O
ATOM	1704	N	SER	B2104	2.396	33.818	15.925	1.00	20.35	N
ATOM	1705	CA	SER	B2104	3.096	34.673	14.974	1.00	21.48	C
ATOM	1706	CB	SER	B2104	4.603	34.675	15.268	1.00	21.45	C
ATOM	1707	OG	SER	B2104	5.328	35.484	14.351	1.00	21.11	O
ATOM	1708	C	SER	B2104	2.826	34.069	13.598	1.00	22.45	C
ATOM	1709	O	SER	B2104	2.492	32.884	13.488	1.00	22.26	O
ATOM	1710	N	HIS	B2105	2.949	34.872	12.549	1.00	23.91	N
ATOM	1711	CA	HIS	B2105	2.725	34.348	11.207	1.00	25.44	C
ATOM	1712	CB	HIS	B2105	1.235	34.372	10.867	1.00	26.52	C
ATOM	1713	CG	HIS	B2105	0.682	35.754	10.693	1.00	27.10	C
ATOM	1714	CD2	HIS	B2105	0.353	36.451	9.577	1.00	27.93	C
ATOM	1715	ND1	HIS	B2105	0.427	36.594	11.755	1.00	27.73	N
ATOM	1716	CE1	HIS	B2105	-0.036	37.747	11.302	1.00	27.61	C
ATOM	1717	NE2	HIS	B2105	-0.091	37.686	9.984	1.00	27.60	N
ATOM	1718	C	HIS	B2105	3.467	35.117	10.123	1.00	25.84	C
ATOM	1719	O	HIS	B2105	3.836	36.274	10.303	1.00	25.76	O
ATOM	1720	N	THR	B2106	3.688	34.444	9.001	1.00	26.43	N
ATOM	1721	CA	THR	B2106	4.314	35.051	7.834	1.00	27.12	C
ATOM	1722	CB	THR	B2106	5.546	34.261	7.341	1.00	27.09	C
ATOM	1723	OG1	THR	B2106	5.137	32.968	6.888	1.00	26.88	O
ATOM	1724	CG2	THR	B2106	6.576	34.120	8.452	1.00	27.18	C
ATOM	1725	C	THR	B2106	3.213	34.953	6.777	1.00	27.59	C
ATOM	1726	O	THR	B2106	2.059	34.688	7.116	1.00	28.11	O
ATOM	1727	N	ASP	B2107	3.553	35.148	5.508	1.00	27.85	N
ATOM	1728	CA	ASP	B2107	2.554	35.068	4.449	1.00	28.22	C
ATOM	1729	CB	ASP	B2107	3.085	35.722	3.170	0.05	28.14	C

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ATOM	1730	CG	ASP	B2107	3.275	37.220	3.316	0.05	28.09	C
ATOM	1731	OD1	ASP	B2107	2.276	37.926	3.569	0.05	28.04	O
ATOM	1732	OD2	ASP	B2107	4.422	37.693	3.177	0.05	28.08	O
ATOM	1733	C	ASP	B2107	2.116	33.632	4.138	1.00	28.63	C
ATOM	1734	O	ASP	B2107	0.995	33.408	3.684	1.00	28.77	O
ATOM	1735	N	GLN	B2108	2.988	32.662	4.392	1.00	28.69	N
ATOM	1736	CA	GLN	B2108	2.663	31.272	4.093	1.00	29.21	C
ATOM	1737	CB	GLN	B2108	3.753	30.666	3.201	1.00	30.96	C
ATOM	1738	CG	GLN	B2108	4.217	31.565	2.059	1.00	32.72	C
ATOM	1739	CD	GLN	B2108	5.386	30.967	1.282	1.00	34.31	C
ATOM	1740	OE1	GLN	B2108	5.195	30.201	0.328	1.00	34.84	O
ATOM	1741	NE2	GLN	B2108	6.605	31.306	1.699	1.00	34.53	N
ATOM	1742	C	GLN	B2108	2.482	30.366	5.308	1.00	28.68	C
ATOM	1743	O	GLN	B2108	1.819	29.337	5.215	1.00	28.89	O
ATOM	1744	N	PHE	B2109	3.068	30.741	6.441	1.00	27.66	N
ATOM	1745	CA	PHE	B2109	2.985	29.916	7.641	1.00	26.50	C
ATOM	1746	CB	PHE	B2109	4.347	29.287	7.953	1.00	26.61	C
ATOM	1747	CG	PHE	B2109	4.860	28.387	6.875	1.00	27.11	C
ATOM	1748	CD1	PHE	B2109	5.577	28.907	5.799	1.00	27.30	C
ATOM	1749	CD2	PHE	B2109	4.599	27.020	6.913	1.00	26.71	C
ATOM	1750	CE1	PHE	B2109	6.026	28.073	4.773	1.00	27.50	C
ATOM	1751	CE2	PHE	B2109	5.045	26.180	5.893	1.00	27.16	C
ATOM	1752	CZ	PHE	B2109	5.757	26.706	4.823	1.00	27.50	C
ATOM	1753	C	PHE	B2109	2.524	30.648	8.883	1.00	25.59	C
ATOM	1754	O	PHE	B2109	2.625	31.872	8.967	1.00	25.67	O
ATOM	1755	N	VAL	B2110	2.016	29.881	9.843	1.00	24.04	N
ATOM	1756	CA	VAL	B2110	1.580	30.435	11.114	1.00	23.42	C
ATOM	1757	CB	VAL	B2110	0.045	30.435	11.267	1.00	23.14	C
ATOM	1758	CG1	VAL	B2110	-0.498	29.016	11.276	1.00	23.49	C
ATOM	1759	CG2	VAL	B2110	-0.327	31.151	12.535	1.00	23.40	C
ATOM	1760	C	VAL	B2110	2.201	29.562	12.188	1.00	22.98	C
ATOM	1761	O	VAL	B2110	2.371	28.364	11.996	1.00	23.38	O
ATOM	1762	N	THR	B2111	2.555	30.161	13.314	1.00	22.66	N
ATOM	1763	CA	THR	B2111	3.175	29.402	14.390	1.00	22.51	C
ATOM	1764	CB	THR	B2111	4.674	29.721	14.459	1.00	23.02	C
ATOM	1765	OG1	THR	B2111	5.310	28.830	15.373	1.00	25.57	O
ATOM	1766	CG2	THR	B2111	4.891	31.148	14.928	1.00	23.27	C
ATOM	1767	C	THR	B2111	2.531	29.714	15.735	1.00	21.17	C
ATOM	1768	O	THR	B2111	2.013	30.807	15.939	1.00	21.65	O
ATOM	1769	N	ALA	B2112	2.565	28.748	16.649	1.00	19.97	N
ATOM	1770	CA	ALA	B2112	1.986	28.928	17.985	1.00	18.49	C
ATOM	1771	CB	ALA	B2112	0.549	28.422	18.009	1.00	16.81	C
ATOM	1772	C	ALA	B2112	2.805	28.227	19.073	1.00	17.74	C
ATOM	1773	O	ALA	B2112	3.375	27.168	18.857	1.00	16.72	O
ATOM	1774	N	SER	B2113	2.860	28.834	20.251	1.00	17.84	N
ATOM	1775	CA	SER	B2113	3.597	28.250	21.365	1.00	17.93	C
ATOM	1776	CB	SER	B2113	4.985	28.893	21.495	1.00	17.90	C
ATOM	1777	OG	SER	B2113	5.742	28.263	22.512	1.00	17.60	O
ATOM	1778	C	SER	B2113	2.805	28.439	22.653	1.00	17.35	C
ATOM	1779	O	SER	B2113	2.262	29.510	22.905	1.00	17.22	O
ATOM	1780	N	VAL	B2114	2.749	27.382	23.452	1.00	16.89	N
ATOM	1781	CA	VAL	B2114	2.020	27.383	24.708	1.00	16.75	C
ATOM	1782	CB	VAL	B2114	0.718	26.533	24.612	1.00	16.63	C
ATOM	1783	CG1	VAL	B2114	0.112	26.347	25.999	1.00	16.16	C
ATOM	1784	CG2	VAL	B2114	-0.298	27.205	23.675	1.00	16.25	C
ATOM	1785	C	VAL	B2114	2.862	26.799	25.835	1.00	17.45	C
ATOM	1786	O	VAL	B2114	3.503	25.750	25.680	1.00	16.99	O

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ATOM	1787	N	ILE	B2115	2.863	27.497	26.966	1.00	17.80	N
ATOM	1788	CA	ILE	B2115	3.566	27.037	28.156	1.00	18.72	C
ATOM	1789	CB	ILE	B2115	4.689	28.008	28.602	1.00	18.37	C
ATOM	1790	CG2	ILE	B2115	5.385	27.452	29.846	1.00	18.27	C
ATOM	1791	CG1	ILE	B2115	5.708	28.205	27.480	1.00	18.40	C
ATOM	1792	CD1	ILE	B2115	6.745	29.289	27.786	1.00	17.55	C
ATOM	1793	C	ILE	B2115	2.515	27.000	29.260	1.00	19.25	C
ATOM	1794	O	ILE	B2115	1.858	28.004	29.524	1.00	19.38	O
ATOM	1795	N	LEU	B2116	2.336	25.846	29.884	1.00	20.55	N
ATOM	1796	CA	LEU	B2116	1.374	25.735	30.968	1.00	22.30	C
ATOM	1797	CB	LEU	B2116	0.628	24.404	30.902	1.00	21.86	C
ATOM	1798	CG	LEU	B2116	-0.147	24.159	29.603	1.00	22.00	C
ATOM	1799	CD1	LEU	B2116	-0.976	22.893	29.732	1.00	21.49	C
ATOM	1800	CD2	LEU	B2116	-1.050	25.359	29.303	1.00	21.93	C
ATOM	1801	C	LEU	B2116	2.123	25.864	32.290	1.00	24.11	C
ATOM	1802	O	LEU	B2116	3.209	25.299	32.472	1.00	23.89	O
ATOM	1803	N	GLU	B2117	1.544	26.621	33.210	1.00	26.00	N
ATOM	1804	CA	GLU	B2117	2.177	26.840	34.493	1.00	28.60	C
ATOM	1805	CB	GLU	B2117	2.746	28.258	34.531	1.00	28.59	C
ATOM	1806	CG	GLU	B2117	3.418	28.627	35.829	1.00	30.48	C
ATOM	1807	CD	GLU	B2117	4.079	29.997	35.771	1.00	31.11	C
ATOM	1808	OE1	GLU	B2117	3.395	30.972	35.385	1.00	31.07	O
ATOM	1809	OE2	GLU	B2117	5.281	30.092	36.115	1.00	31.14	O
ATOM	1810	C	GLU	B2117	1.217	26.601	35.659	1.00	30.07	C
ATOM	1811	O	GLU	B2117	0.029	26.938	35.595	1.00	29.34	O
ATOM	1812	N	GLU	B2118	1.742	26.006	36.726	1.00	32.11	N
ATOM	1813	CA	GLU	B2118	0.926	25.712	37.889	1.00	34.40	C
ATOM	1814	CB	GLU	B2118	0.997	24.223	38.212	1.00	35.62	C
ATOM	1815	CG	GLU	B2118	-0.294	23.679	38.772	1.00	37.98	C
ATOM	1816	CD	GLU	B2118	-1.458	23.905	37.825	1.00	39.13	C
ATOM	1817	OE1	GLU	B2118	-1.403	23.398	36.682	1.00	39.94	O
ATOM	1818	OE2	GLU	B2118	-2.422	24.596	38.222	1.00	40.32	O
ATOM	1819	C	GLU	B2118	1.387	26.515	39.090	1.00	35.21	C
ATOM	1820	O	GLU	B2118	2.611	26.552	39.343	1.00	35.67	O
ATOM	1821	OXT	GLU	B2118	0.507	27.088	39.767	1.00	36.45	O
TER	1822		GLU	B2118						
ATOM	1823	CB	MET	C3003	14.254	28.191	38.580	1.00	31.28	C
ATOM	1824	CG	MET	C3003	15.448	27.262	38.618	1.00	32.93	C
ATOM	1825	SD	MET	C3003	16.870	27.987	39.434	1.00	35.68	S
ATOM	1826	CE	MET	C3003	16.438	27.672	41.140	1.00	34.95	C
ATOM	1827	C	MET	C3003	13.519	27.087	36.482	1.00	29.25	C
ATOM	1828	O	MET	C3003	13.901	25.920	36.332	1.00	28.76	O
ATOM	1829	N	MET	C3003	12.435	26.519	38.666	1.00	30.53	N
ATOM	1830	CA	MET	C3003	13.052	27.596	37.845	1.00	30.20	C
ATOM	1831	N	ILE	C3004	13.491	27.976	35.493	1.00	28.16	N
ATOM	1832	CA	ILE	C3004	13.945	27.636	34.149	1.00	27.31	C
ATOM	1833	CB	ILE	C3004	13.377	28.604	33.084	1.00	27.05	C
ATOM	1834	CG2	ILE	C3004	14.103	28.413	31.761	1.00	26.26	C
ATOM	1835	CG1	ILE	C3004	11.876	28.372	32.919	1.00	26.90	C
ATOM	1836	CD1	ILE	C3004	11.203	29.374	31.996	1.00	27.09	C
ATOM	1837	C	ILE	C3004	15.452	27.775	34.170	1.00	26.61	C
ATOM	1838	O	ILE	C3004	15.970	28.755	34.685	1.00	26.80	O
ATOM	1839	N	VAL	C3005	16.153	26.794	33.617	1.00	26.02	N
ATOM	1840	CA	VAL	C3005	17.611	26.822	33.581	1.00	25.10	C
ATOM	1841	CB	VAL	C3005	18.221	25.644	34.396	1.00	25.36	C
ATOM	1842	CG1	VAL	C3005	17.820	25.766	35.869	1.00	25.11	C
ATOM	1843	CG2	VAL	C3005	17.755	24.306	33.833	1.00	24.57	C

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ATOM	1844	C	VAL	C3005	18.124	26.747	32.152	1.00	24.50	C
ATOM	1845	O	VAL	C3005	19.327	26.640	31.928	1.00	25.44	O
ATOM	1846	N	GLY	C3006	17.212	26.805	31.186	1.00	23.63	N
ATOM	1847	CA	GLY	C3006	17.612	26.736	29.791	1.00	22.31	C
ATOM	1848	C	GLY	C3006	16.446	26.762	28.820	1.00	21.49	C
ATOM	1849	O	GLY	C3006	15.332	26.348	29.156	1.00	21.47	O
ATOM	1850	N	HIS	C3007	16.700	27.254	27.609	1.00	20.33	N
ATOM	1851	CA	HIS	C3007	15.664	27.336	26.582	1.00	19.44	C
ATOM	1852	CB	HIS	C3007	14.806	28.591	26.785	1.00	18.31	C
ATOM	1853	CG	HIS	C3007	13.749	28.777	25.741	1.00	18.22	C
ATOM	1854	CD2	HIS	C3007	13.411	29.857	24.997	1.00	18.17	C
ATOM	1855	ND1	HIS	C3007	12.871	27.778	25.384	1.00	18.32	N
ATOM	1856	CE1	HIS	C3007	12.036	28.233	24.467	1.00	18.15	C
ATOM	1857	NE2	HIS	C3007	12.342	29.492	24.215	1.00	18.03	N
ATOM	1858	C	HIS	C3007	16.288	27.357	25.196	1.00	18.96	C
ATOM	1859	O	HIS	C3007	17.200	28.125	24.940	1.00	19.65	O
ATOM	1860	N	GLY	C3008	15.795	26.504	24.307	1.00	18.27	N
ATOM	1861	CA	GLY	C3008	16.340	26.468	22.965	1.00	17.73	C
ATOM	1862	C	GLY	C3008	15.307	26.061	21.932	1.00	17.73	C
ATOM	1863	O	GLY	C3008	14.398	25.274	22.215	1.00	16.98	O
ATOM	1864	N	ILE	C3009	15.426	26.620	20.735	1.00	17.47	N
ATOM	1865	CA	ILE	C3009	14.512	26.281	19.658	1.00	18.23	C
ATOM	1866	CB	ILE	C3009	13.483	27.414	19.340	1.00	17.95	C
ATOM	1867	CG2	ILE	C3009	12.743	27.836	20.604	1.00	17.06	C
ATOM	1868	CG1	ILE	C3009	14.192	28.608	18.683	1.00	17.87	C
ATOM	1869	CD1	ILE	C3009	13.233	29.653	18.104	1.00	18.30	C
ATOM	1870	C	ILE	C3009	15.327	26.029	18.406	1.00	19.18	C
ATOM	1871	O	ILE	C3009	16.516	26.345	18.345	1.00	18.80	O
ATOM	1872	N	ASP	C3010	14.682	25.439	17.413	1.00	20.69	N
ATOM	1873	CA	ASP	C3010	15.330	25.188	16.144	1.00	22.71	C
ATOM	1874	CB	ASP	C3010	16.251	23.974	16.216	1.00	23.72	C
ATOM	1875	CG	ASP	C3010	16.949	23.710	14.899	1.00	24.96	C
ATOM	1876	OD1	ASP	C3010	17.840	24.501	14.528	1.00	26.04	O
ATOM	1877	OD2	ASP	C3010	16.598	22.724	14.219	1.00	26.67	O
ATOM	1878	C	ASP	C3010	14.307	24.963	15.045	1.00	23.50	C
ATOM	1879	O	ASP	C3010	13.239	24.407	15.278	1.00	23.37	O
ATOM	1880	N	ILE	C3011	14.645	25.428	13.851	1.00	24.39	N
ATOM	1881	CA	ILE	C3011	13.796	25.259	12.695	1.00	25.77	C
ATOM	1882	CB	ILE	C3011	13.178	26.600	12.239	1.00	25.68	C
ATOM	1883	CG2	ILE	C3011	14.270	27.609	11.941	1.00	24.95	C
ATOM	1884	CG1	ILE	C3011	12.274	26.364	11.022	1.00	25.90	C
ATOM	1885	CD1	ILE	C3011	11.308	27.501	10.737	1.00	25.60	C
ATOM	1886	C	ILE	C3011	14.701	24.681	11.616	1.00	27.06	C
ATOM	1887	O	ILE	C3011	15.856	25.091	11.476	1.00	27.35	O
ATOM	1888	N	GLU	C3012	14.182	23.700	10.885	1.00	28.16	N
ATOM	1889	CA	GLU	C3012	14.937	23.048	9.829	1.00	29.36	C
ATOM	1890	CB	GLU	C3012	15.410	21.664	10.278	1.00	30.33	C
ATOM	1891	CG	GLU	C3012	16.347	21.633	11.467	1.00	31.58	C
ATOM	1892	CD	GLU	C3012	17.722	22.207	11.164	1.00	32.87	C
ATOM	1893	OE1	GLU	C3012	18.082	22.322	9.965	1.00	32.65	O
ATOM	1894	OE2	GLU	C3012	18.447	22.529	12.138	1.00	32.87	O
ATOM	1895	C	GLU	C3012	14.097	22.872	8.580	1.00	29.90	C
ATOM	1896	O	GLU	C3012	12.906	22.548	8.647	1.00	29.35	O
ATOM	1897	N	GLU	C3013	14.729	23.095	7.435	1.00	31.00	N
ATOM	1898	CA	GLU	C3013	14.067	22.913	6.153	1.00	32.07	C
ATOM	1899	CB	GLU	C3013	14.782	23.722	5.075	1.00	33.32	C
ATOM	1900	CG	GLU	C3013	14.202	23.564	3.684	1.00	35.05	C

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ATOM	1901	CD	GLU	C3013	15.142	24.089	2.614	1.00	36.48	C
ATOM	1902	OE1	GLU	C3013	15.645	25.228	2.761	1.00	36.82	O
ATOM	1903	OE2	GLU	C3013	15.376	23.365	1.622	1.00	37.39	O
ATOM	1904	C	GLU	C3013	14.206	21.418	5.873	1.00	31.77	C
ATOM	1905	O	GLU	C3013	15.306	20.877	5.914	1.00	31.08	O
ATOM	1906	N	LEU	C3014	13.093	20.750	5.614	1.00	32.39	N
ATOM	1907	CA	LEU	C3014	13.130	19.318	5.360	1.00	33.65	C
ATOM	1908	CB	LEU	C3014	11.718	18.794	5.080	1.00	33.57	C
ATOM	1909	CG	LEU	C3014	10.813	18.685	6.313	1.00	34.16	C
ATOM	1910	CD1	LEU	C3014	9.416	18.252	5.906	1.00	34.65	C
ATOM	1911	CD2	LEU	C3014	11.404	17.680	7.280	1.00	34.38	C
ATOM	1912	C	LEU	C3014	14.069	18.946	4.220	1.00	34.37	C
ATOM	1913	O	LEU	C3014	14.736	17.913	4.271	1.00	34.47	O
ATOM	1914	N	ALA	C3015	14.128	19.801	3.204	1.00	35.44	N
ATOM	1915	CA	ALA	C3015	14.982	19.572	2.047	1.00	36.79	C
ATOM	1916	CB	ALA	C3015	14.749	20.655	1.011	1.00	36.53	C
ATOM	1917	C	ALA	C3015	16.457	19.511	2.418	1.00	37.84	C
ATOM	1918	O	ALA	C3015	17.215	18.737	1.831	1.00	38.53	O
ATOM	1919	N	SER	C3016	16.863	20.322	3.391	1.00	39.07	N
ATOM	1920	CA	SER	C3016	18.253	20.349	3.838	1.00	40.09	C
ATOM	1921	CB	SER	C3016	18.473	21.478	4.847	1.00	40.11	C
ATOM	1922	OG	SER	C3016	18.172	22.734	4.271	1.00	41.50	O
ATOM	1923	C	SER	C3016	18.628	19.026	4.481	1.00	40.95	C
ATOM	1924	O	SER	C3016	19.757	18.552	4.340	1.00	41.12	O
ATOM	1925	N	ILE	C3017	17.683	18.428	5.197	1.00	41.82	N
ATOM	1926	CA	ILE	C3017	17.951	17.158	5.849	1.00	43.16	C
ATOM	1927	CB	ILE	C3017	16.799	16.768	6.795	1.00	42.90	C
ATOM	1928	CG2	ILE	C3017	17.170	15.527	7.598	1.00	42.32	C
ATOM	1929	CG1	ILE	C3017	16.518	17.924	7.759	1.00	43.05	C
ATOM	1930	CD1	ILE	C3017	17.709	18.332	8.597	1.00	42.53	C
ATOM	1931	C	ILE	C3017	18.165	16.076	4.789	1.00	44.24	C
ATOM	1932	O	ILE	C3017	19.033	15.215	4.941	1.00	44.09	O
ATOM	1933	N	GLU	C3018	17.383	16.128	3.713	1.00	45.44	N
ATOM	1934	CA	GLU	C3018	17.530	15.158	2.637	1.00	47.05	C
ATOM	1935	CB	GLU	C3018	16.516	15.411	1.524	1.00	47.54	C
ATOM	1936	CG	GLU	C3018	15.158	14.805	1.755	1.00	48.25	C
ATOM	1937	CD	GLU	C3018	14.383	14.664	0.463	1.00	48.87	C
ATOM	1938	OE1	GLU	C3018	14.159	15.686	-0.220	1.00	49.40	O
ATOM	1939	OE2	GLU	C3018	14.005	13.525	0.126	1.00	49.49	O
ATOM	1940	C	GLU	C3018	18.929	15.261	2.048	1.00	47.90	C
ATOM	1941	O	GLU	C3018	19.696	14.299	2.083	1.00	47.96	O
ATOM	1942	N	SER	C3019	19.248	16.429	1.495	1.00	48.89	N
ATOM	1943	CA	SER	C3019	20.560	16.658	0.905	1.00	49.72	C
ATOM	1944	CB	SER	C3019	20.815	18.152	0.713	1.00	49.87	C
ATOM	1945	OG	SER	C3019	19.977	18.685	-0.295	1.00	50.04	O
ATOM	1946	C	SER	C3019	21.614	16.078	1.825	1.00	50.34	C
ATOM	1947	O	SER	C3019	22.506	15.362	1.380	1.00	50.79	O
ATOM	1948	N	ALA	C3020	21.504	16.380	3.114	1.00	50.84	N
ATOM	1949	CA	ALA	C3020	22.461	15.860	4.083	1.00	51.57	C
ATOM	1950	CB	ALA	C3020	22.054	16.266	5.491	1.00	51.45	C
ATOM	1951	C	ALA	C3020	22.511	14.338	3.960	1.00	52.20	C
ATOM	1952	O	ALA	C3020	23.585	13.752	3.811	1.00	52.03	O
ATOM	1953	N	VAL	C3021	21.337	13.711	4.013	1.00	53.10	N
ATOM	1954	CA	VAL	C3021	21.212	12.259	3.897	1.00	53.96	C
ATOM	1955	CB	VAL	C3021	19.730	11.818	3.969	1.00	53.97	C
ATOM	1956	CG1	VAL	C3021	19.609	10.329	3.671	1.00	54.14	C
ATOM	1957	CG2	VAL	C3021	19.165	12.124	5.340	1.00	53.98	C

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ATOM	1958	C	VAL	C3021	21.788	11.793	2.566	1.00	54.57	C
ATOM	1959	O	VAL	C3021	22.424	10.740	2.481	1.00	54.43	O
ATOM	1960	N	THR	C3022	21.553	12.591	1.530	1.00	55.21	N
ATOM	1961	CA	THR	C3022	22.041	12.293	0.194	1.00	55.84	C
ATOM	1962	CB	THR	C3022	21.456	13.283	-0.831	1.00	55.80	C
ATOM	1963	OG1	THR	C3022	20.034	13.124	-0.878	1.00	55.98	O
ATOM	1964	CG2	THR	C3022	22.036	13.036	-2.214	1.00	55.79	C
ATOM	1965	C	THR	C3022	23.566	12.355	0.155	1.00	56.35	C
ATOM	1966	O	THR	C3022	24.213	11.386	-0.230	1.00	56.58	O
ATOM	1967	N	ARG	C3023	24.135	13.489	0.557	1.00	56.81	N
ATOM	1968	CA	ARG	C3023	25.586	13.650	0.567	1.00	57.20	C
ATOM	1969	CB	ARG	C3023	25.966	15.015	1.151	1.00	57.25	C
ATOM	1970	CG	ARG	C3023	27.463	15.289	1.151	1.00	57.60	C
ATOM	1971	CD	ARG	C3023	27.782	16.762	1.388	1.00	57.64	C
ATOM	1972	NE	ARG	C3023	27.410	17.222	2.722	0.05	57.76	N
ATOM	1973	CZ	ARG	C3023	27.609	18.460	3.163	0.05	57.81	C
ATOM	1974	NH1	ARG	C3023	28.176	19.364	2.374	0.05	57.84	N
ATOM	1975	NH2	ARG	C3023	27.245	18.796	4.393	0.05	57.82	N
ATOM	1976	C	ARG	C3023	26.203	12.522	1.390	1.00	57.47	C
ATOM	1977	O	ARG	C3023	26.328	11.402	0.903	1.00	57.73	O
ATOM	1978	N	HIS	C3024	26.592	12.806	2.630	1.00	57.66	N
ATOM	1979	CA	HIS	C3024	27.168	11.773	3.486	1.00	57.79	C
ATOM	1980	CB	HIS	C3024	27.968	12.404	4.627	0.05	57.91	C
ATOM	1981	CG	HIS	C3024	29.442	12.449	4.375	0.05	58.00	C
ATOM	1982	CD2	HIS	C3024	30.301	13.491	4.278	0.05	58.04	C
ATOM	1983	ND1	HIS	C3024	30.198	11.312	4.187	0.05	58.04	N
ATOM	1984	CE1	HIS	C3024	31.459	11.651	3.986	0.05	58.06	C
ATOM	1985	NE2	HIS	C3024	31.549	12.968	4.036	0.05	58.07	N
ATOM	1986	C	HIS	C3024	26.069	10.873	4.054	1.00	57.96	C
ATOM	1987	O	HIS	C3024	25.413	11.223	5.038	1.00	58.10	O
ATOM	1988	N	GLU	C3025	25.874	9.710	3.435	1.00	57.92	N
ATOM	1989	CA	GLU	C3025	24.846	8.773	3.879	1.00	57.71	C
ATOM	1990	CB	GLU	C3025	24.824	7.535	2.976	1.00	58.27	C
ATOM	1991	CG	GLU	C3025	25.979	6.571	3.189	1.00	59.11	C
ATOM	1992	CD	GLU	C3025	25.784	5.259	2.446	1.00	59.59	C
ATOM	1993	OE1	GLU	C3025	24.749	4.592	2.673	1.00	59.65	O
ATOM	1994	OE2	GLU	C3025	26.665	4.893	1.637	1.00	59.98	O
ATOM	1995	C	GLU	C3025	25.029	8.341	5.336	1.00	57.11	C
ATOM	1996	O	GLU	C3025	24.089	7.857	5.974	1.00	57.33	O
ATOM	1997	N	GLY	C3026	26.238	8.508	5.861	1.00	56.15	N
ATOM	1998	CA	GLY	C3026	26.486	8.136	7.242	1.00	55.03	C
ATOM	1999	C	GLY	C3026	25.890	9.170	8.177	1.00	54.19	C
ATOM	2000	O	GLY	C3026	26.023	9.081	9.398	1.00	54.12	O
ATOM	2001	N	PHE	C3027	25.227	10.160	7.589	1.00	53.18	N
ATOM	2002	CA	PHE	C3027	24.601	11.238	8.343	1.00	52.05	C
ATOM	2003	CB	PHE	C3027	23.817	12.142	7.386	1.00	52.10	C
ATOM	2004	CG	PHE	C3027	23.129	13.289	8.059	1.00	52.03	C
ATOM	2005	CD1	PHE	C3027	23.859	14.233	8.768	1.00	51.96	C
ATOM	2006	CD2	PHE	C3027	21.743	13.427	7.984	1.00	52.34	C
ATOM	2007	CE1	PHE	C3027	23.221	15.304	9.398	1.00	52.41	C
ATOM	2008	CE2	PHE	C3027	21.092	14.492	8.609	1.00	52.33	C
ATOM	2009	CZ	PHE	C3027	21.833	15.434	9.319	1.00	52.40	C
ATOM	2010	C	PHE	C3027	23.676	10.720	9.443	1.00	51.01	C
ATOM	2011	O	PHE	C3027	23.914	10.957	10.628	1.00	51.01	O
ATOM	2012	N	ALA	C3028	22.631	10.002	9.042	1.00	49.81	N
ATOM	2013	CA	ALA	C3028	21.648	9.463	9.979	1.00	48.74	C
ATOM	2014	CB	ALA	C3028	20.608	8.645	9.231	1.00	48.50	C

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ATOM	2015	C	ALA	C3028	22.240	8.630	11.104	1.00	48.04	C
ATOM	2016	O	ALA	C3028	21.865	8.802	12.266	1.00	47.95	O
ATOM	2017	N	LYS	C3029	23.156	7.726	10.767	1.00	47.14	N
ATOM	2018	CA	LYS	C3029	23.765	6.874	11.779	1.00	46.13	C
ATOM	2019	CB	LYS	C3029	24.681	5.833	11.126	1.00	46.10	C
ATOM	2020	CG	LYS	C3029	25.918	6.410	10.460	0.05	46.12	C
ATOM	2021	CD	LYS	C3029	26.810	5.310	9.907	0.05	46.11	C
ATOM	2022	CE	LYS	C3029	28.065	5.884	9.269	0.05	46.11	C
ATOM	2023	NZ	LYS	C3029	28.873	6.675	10.238	0.05	46.11	N
ATOM	2024	C	LYS	C3029	24.548	7.709	12.789	1.00	45.54	C
ATOM	2025	O	LYS	C3029	24.739	7.299	13.936	1.00	45.54	O
ATOM	2026	N	ARG	C3030	24.997	8.883	12.361	1.00	44.50	N
ATOM	2027	CA	ARG	C3030	25.747	9.770	13.243	1.00	43.62	C
ATOM	2028	CB	ARG	C3030	26.703	10.650	12.425	1.00	43.71	C
ATOM	2029	CG	ARG	C3030	28.071	10.019	12.194	0.05	43.64	C
ATOM	2030	CD	ARG	C3030	28.410	9.914	10.717	0.05	43.63	C
ATOM	2031	NE	ARG	C3030	28.407	11.214	10.051	0.05	43.58	N
ATOM	2032	CZ	ARG	C3030	28.653	11.389	8.756	0.05	43.55	C
ATOM	2033	NH1	ARG	C3030	28.923	10.347	7.983	0.05	43.53	N
ATOM	2034	NH2	ARG	C3030	28.626	12.608	8.234	0.05	43.55	N
ATOM	2035	C	ARG	C3030	24.819	10.651	14.071	1.00	42.89	C
ATOM	2036	O	ARG	C3030	25.183	11.099	15.158	1.00	42.93	O
ATOM	2037	N	VAL	C3031	23.616	10.885	13.556	1.00	41.77	N
ATOM	2038	CA	VAL	C3031	22.637	11.724	14.237	1.00	40.54	C
ATOM	2039	CB	VAL	C3031	21.761	12.464	13.213	1.00	40.55	C
ATOM	2040	CG1	VAL	C3031	20.717	13.298	13.926	1.00	40.68	C
ATOM	2041	CG2	VAL	C3031	22.631	13.339	12.328	1.00	40.57	C
ATOM	2042	C	VAL	C3031	21.727	10.941	15.180	1.00	39.76	C
ATOM	2043	O	VAL	C3031	21.373	11.418	16.256	1.00	39.22	O
ATOM	2044	N	LEU	C3032	21.353	9.736	14.771	1.00	39.10	N
ATOM	2045	CA	LEU	C3032	20.470	8.905	15.572	1.00	38.53	C
ATOM	2046	CB	LEU	C3032	19.453	8.223	14.656	1.00	38.36	C
ATOM	2047	CG	LEU	C3032	18.612	9.150	13.767	1.00	38.42	C
ATOM	2048	CD1	LEU	C3032	17.671	8.308	12.912	1.00	38.50	C
ATOM	2049	CD2	LEU	C3032	17.819	10.131	14.622	1.00	37.90	C
ATOM	2050	C	LEU	C3032	21.217	7.848	16.378	1.00	38.18	C
ATOM	2051	O	LEU	C3032	22.395	7.585	16.134	1.00	38.41	O
ATOM	2052	N	THR	C3033	20.530	7.263	17.356	1.00	37.76	N
ATOM	2053	CA	THR	C3033	21.105	6.193	18.166	1.00	37.32	C
ATOM	2054	CB	THR	C3033	20.636	6.248	19.638	1.00	37.17	C
ATOM	2055	OG1	THR	C3033	19.233	5.967	19.704	1.00	37.15	O
ATOM	2056	CG2	THR	C3033	20.900	7.612	20.236	1.00	37.54	C
ATOM	2057	C	THR	C3033	20.546	4.918	17.537	1.00	37.05	C
ATOM	2058	O	THR	C3033	19.725	4.992	16.623	1.00	36.86	O
ATOM	2059	N	ALA	C3034	20.976	3.759	18.026	1.00	37.00	N
ATOM	2060	CA	ALA	C3034	20.502	2.481	17.495	1.00	36.98	C
ATOM	2061	CB	ALA	C3034	21.121	1.324	18.279	1.00	36.85	C
ATOM	2062	C	ALA	C3034	18.978	2.384	17.538	1.00	36.93	C
ATOM	2063	O	ALA	C3034	18.331	2.154	16.516	1.00	36.95	O
ATOM	2064	N	LEU	C3035	18.401	2.553	18.721	1.00	37.04	N
ATOM	2065	CA	LEU	C3035	16.951	2.480	18.844	1.00	37.28	C
ATOM	2066	CB	LEU	C3035	16.522	2.844	20.271	1.00	37.10	C
ATOM	2067	CG	LEU	C3035	15.183	2.291	20.770	0.05	37.08	C
ATOM	2068	CD1	LEU	C3035	14.994	2.675	22.229	0.05	37.00	C
ATOM	2069	CD2	LEU	C3035	14.040	2.822	19.922	0.05	37.02	C
ATOM	2070	C	LEU	C3035	16.322	3.442	17.828	1.00	37.52	C
ATOM	2071	O	LEU	C3035	15.418	3.065	17.084	1.00	37.65	O

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ATOM	2072	N	GLU	C3036	16.814	4.678	17.790	1.00	37.89	N
ATOM	2073	CA	GLU	C3036	16.299	5.679	16.854	1.00	38.14	C
ATOM	2074	CB	GLU	C3036	17.007	7.031	17.063	1.00	37.82	C
ATOM	2075	CG	GLU	C3036	16.486	7.857	18.244	1.00	37.71	C
ATOM	2076	CD	GLU	C3036	17.305	9.128	18.490	1.00	37.80	C
ATOM	2077	OE1	GLU	C3036	16.865	9.989	19.283	1.00	37.10	O
ATOM	2078	OE2	GLU	C3036	18.397	9.265	17.896	1.00	37.62	O
ATOM	2079	C	GLU	C3036	16.462	5.232	15.398	1.00	38.18	C
ATOM	2080	O	GLU	C3036	15.629	5.551	14.553	1.00	38.25	O
ATOM	2081	N	MET	C3037	17.533	4.499	15.104	1.00	38.56	N
ATOM	2082	CA	MET	C3037	17.769	4.022	13.743	1.00	39.53	C
ATOM	2083	CB	MET	C3037	19.196	3.495	13.591	1.00	40.21	C
ATOM	2084	CG	MET	C3037	20.230	4.576	13.312	1.00	41.61	C
ATOM	2085	SD	MET	C3037	19.932	5.428	11.726	1.00	43.58	S
ATOM	2086	CE	MET	C3037	20.794	4.327	10.578	1.00	42.57	C
ATOM	2087	C	MET	C3037	16.782	2.935	13.337	1.00	39.68	C
ATOM	2088	O	MET	C3037	16.356	2.881	12.186	1.00	39.73	O
ATOM	2089	N	GLU	C3038	16.421	2.072	14.284	1.00	39.82	N
ATOM	2090	CA	GLU	C3038	15.473	0.995	14.012	1.00	39.88	C
ATOM	2091	CB	GLU	C3038	15.205	0.190	15.289	1.00	39.75	C
ATOM	2092	CG	GLU	C3038	16.451	-0.428	15.905	0.05	39.71	C
ATOM	2093	CD	GLU	C3038	16.163	-1.139	17.213	0.05	39.67	C
ATOM	2094	OE1	GLU	C3038	15.344	-2.083	17.210	0.05	39.64	O
ATOM	2095	OE2	GLU	C3038	16.755	-0.755	18.243	0.05	39.61	O
ATOM	2096	C	GLU	C3038	14.175	1.609	13.500	1.00	40.09	C
ATOM	2097	O	GLU	C3038	13.556	1.105	12.559	1.00	40.19	O
ATOM	2098	N	ARG	C3039	13.774	2.709	14.126	1.00	40.05	N
ATOM	2099	CA	ARG	C3039	12.560	3.418	13.744	1.00	40.26	C
ATOM	2100	CB	ARG	C3039	12.230	4.466	14.811	1.00	40.88	C
ATOM	2101	CG	ARG	C3039	11.106	5.425	14.468	1.00	41.43	C
ATOM	2102	CD	ARG	C3039	9.756	4.739	14.377	1.00	42.67	C
ATOM	2103	NE	ARG	C3039	8.673	5.723	14.425	1.00	43.58	N
ATOM	2104	CZ	ARG	C3039	7.394	5.459	14.169	1.00	43.85	C
ATOM	2105	NH1	ARG	C3039	7.007	4.231	13.838	1.00	43.59	N
ATOM	2106	NH2	ARG	C3039	6.498	6.435	14.234	1.00	44.15	N
ATOM	2107	C	ARG	C3039	12.755	4.090	12.384	1.00	39.98	C
ATOM	2108	O	ARG	C3039	11.891	4.009	11.506	1.00	39.45	O
ATOM	2109	N	PHE	C3040	13.901	4.745	12.216	1.00	40.04	N
ATOM	2110	CA	PHE	C3040	14.218	5.440	10.968	1.00	40.26	C
ATOM	2111	CB	PHE	C3040	15.603	6.074	11.061	1.00	40.27	C
ATOM	2112	CG	PHE	C3040	16.022	6.804	9.814	1.00	40.95	C
ATOM	2113	CD1	PHE	C3040	15.431	8.015	9.466	1.00	41.11	C
ATOM	2114	CD2	PHE	C3040	17.013	6.282	8.989	1.00	41.10	C
ATOM	2115	CE1	PHE	C3040	15.822	8.699	8.315	1.00	41.43	C
ATOM	2116	CE2	PHE	C3040	17.412	6.956	7.835	1.00	41.44	C
ATOM	2117	CZ	PHE	C3040	16.815	8.169	7.497	1.00	41.61	C
ATOM	2118	C	PHE	C3040	14.181	4.507	9.756	1.00	40.43	C
ATOM	2119	O	PHE	C3040	13.467	4.757	8.784	1.00	39.60	O
ATOM	2120	N	THR	C3041	14.956	3.429	9.833	1.00	40.82	N
ATOM	2121	CA	THR	C3041	15.043	2.459	8.749	1.00	41.42	C
ATOM	2122	CB	THR	C3041	16.154	1.435	9.018	1.00	41.55	C
ATOM	2123	OG1	THR	C3041	15.782	0.597	10.121	1.00	42.56	O
ATOM	2124	CG2	THR	C3041	17.450	2.149	9.351	1.00	41.22	C
ATOM	2125	C	THR	C3041	13.749	1.702	8.463	1.00	41.42	C
ATOM	2126	O	THR	C3041	13.630	1.072	7.415	1.00	41.80	O
ATOM	2127	N	SER	C3042	12.783	1.757	9.377	1.00	41.30	N
ATOM	2128	CA	SER	C3042	11.521	1.059	9.152	1.00	41.35	C

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ATOM	2129	CB	SER C3042	10.998	0.445	10.454	1.00	41.25	C
ATOM	2130	OG	SER C3042	10.501	1.442	11.324	1.00	42.03	O
ATOM	2131	C	SER C3042	10.469	1.996	8.569	1.00	41.30	C
ATOM	2132	O	SER C3042	9.334	1.589	8.311	1.00	41.45	O
ATOM	2133	N	LEU C3043	10.850	3.255	8.373	1.00	41.13	N
ATOM	2134	CA	LEU C3043	9.956	4.262	7.808	1.00	40.94	C
ATOM	2135	CB	LEU C3043	10.026	5.566	8.618	1.00	40.70	C
ATOM	2136	CG	LEU C3043	9.382	5.618	10.012	1.00	40.56	C
ATOM	2137	CD1	LEU C3043	9.835	6.871	10.735	1.00	40.07	C
ATOM	2138	CD2	LEU C3043	7.859	5.586	9.891	1.00	40.06	C
ATOM	2139	C	LEU C3043	10.398	4.528	6.375	1.00	41.07	C
ATOM	2140	O	LEU C3043	11.494	4.128	5.978	1.00	40.93	O
ATOM	2141	N	LYS C3044	9.550	5.203	5.604	1.00	41.26	N
ATOM	2142	CA	LYS C3044	9.871	5.513	4.214	1.00	41.42	C
ATOM	2143	CB	LYS C3044	9.481	4.346	3.307	1.00	42.49	C
ATOM	2144	CG	LYS C3044	7.982	4.199	3.107	1.00	43.64	C
ATOM	2145	CD	LYS C3044	7.678	3.191	2.012	1.00	45.17	C
ATOM	2146	CE	LYS C3044	6.206	3.228	1.616	1.00	45.99	C
ATOM	2147	NZ	LYS C3044	5.900	2.249	0.535	1.00	47.05	N
ATOM	2148	C	LYS C3044	9.147	6.768	3.739	1.00	40.92	C
ATOM	2149	O	LYS C3044	8.191	7.219	4.365	1.00	40.90	O
ATOM	2150	N	GLY C3045	9.605	7.320	2.621	1.00	40.22	N
ATOM	2151	CA	GLY C3045	8.986	8.510	2.072	1.00	39.26	C
ATOM	2152	C	GLY C3045	9.182	9.736	2.937	1.00	38.68	C
ATOM	2153	O	GLY C3045	10.142	9.829	3.694	1.00	38.24	O
ATOM	2154	N	ARG C3046	8.260	10.683	2.818	1.00	38.56	N
ATOM	2155	CA	ARG C3046	8.318	11.921	3.589	1.00	38.49	C
ATOM	2156	CB	ARG C3046	7.107	12.793	3.251	1.00	38.44	C
ATOM	2157	CG	ARG C3046	7.104	14.158	3.912	0.05	38.46	C
ATOM	2158	CD	ARG C3046	5.887	14.963	3.483	0.05	38.40	C
ATOM	2159	NE	ARG C3046	5.874	15.200	2.042	0.05	38.36	N
ATOM	2160	CZ	ARG C3046	4.887	15.809	1.393	0.05	38.32	C
ATOM	2161	NH1	ARG C3046	4.963	15.982	0.081	0.05	38.29	N
ATOM	2162	NH2	ARG C3046	3.822	16.241	2.055	0.05	38.31	N
ATOM	2163	C	ARG C3046	8.372	11.647	5.093	1.00	38.25	C
ATOM	2164	O	ARG C3046	9.027	12.365	5.830	1.00	38.13	O
ATOM	2165	N	ARG C3047	7.696	10.595	5.538	1.00	38.32	N
ATOM	2166	CA	ARG C3047	7.673	10.234	6.953	1.00	38.52	C
ATOM	2167	CB	ARG C3047	6.727	9.051	7.169	1.00	39.67	C
ATOM	2168	CG	ARG C3047	5.251	9.432	7.225	1.00	41.67	C
ATOM	2169	CD	ARG C3047	4.369	8.277	6.767	1.00	43.70	C
ATOM	2170	NE	ARG C3047	3.141	8.152	7.550	1.00	45.24	N
ATOM	2171	CZ	ARG C3047	3.112	7.824	8.840	1.00	46.12	C
ATOM	2172	NH1	ARG C3047	4.248	7.589	9.495	1.00	46.08	N
ATOM	2173	NH2	ARG C3047	1.947	7.722	9.474	1.00	45.94	N
ATOM	2174	C	ARG C3047	9.042	9.906	7.554	1.00	38.04	C
ATOM	2175	O	ARG C3047	9.287	10.174	8.731	1.00	37.75	O
ATOM	2176	N	GLN C3048	9.931	9.320	6.757	1.00	37.49	N
ATOM	2177	CA	GLN C3048	11.258	8.966	7.251	1.00	36.91	C
ATOM	2178	CB	GLN C3048	11.912	7.919	6.349	1.00	36.94	C
ATOM	2179	CG	GLN C3048	13.283	7.496	6.849	1.00	37.10	C
ATOM	2180	CD	GLN C3048	14.092	6.744	5.813	1.00	37.40	C
ATOM	2181	OE1	GLN C3048	14.233	7.196	4.680	1.00	37.42	O
ATOM	2182	NE2	GLN C3048	14.643	5.600	6.202	1.00	37.18	N
ATOM	2183	C	GLN C3048	12.186	10.176	7.367	1.00	36.61	C
ATOM	2184	O	GLN C3048	12.971	10.284	8.315	1.00	36.44	O
ATOM	2185	N	ILE C3049	12.101	11.082	6.403	1.00	35.91	N

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ATOM	2186	CA	ILE	C3049	12.932	12.271	6.429	1.00	35.80	C
ATOM	2187	CB	ILE	C3049	12.906	12.991	5.054	1.00	36.41	C
ATOM	2188	CG2	ILE	C3049	11.482	13.209	4.607	1.00	37.11	C
ATOM	2189	CG1	ILE	C3049	13.678	14.307	5.136	1.00	36.64	C
ATOM	2190	CD1	ILE	C3049	15.150	14.108	5.433	1.00	37.22	C
ATOM	2191	C	ILE	C3049	12.436	13.201	7.542	1.00	35.41	C
ATOM	2192	O	ILE	C3049	13.231	13.824	8.254	1.00	35.47	O
ATOM	2193	N	GLU	C3050	11.119	13.280	7.707	1.00	34.48	N
ATOM	2194	CA	GLU	C3050	10.546	14.118	8.756	1.00	33.55	C
ATOM	2195	CB	GLU	C3050	9.023	14.074	8.699	1.00	34.18	C
ATOM	2196	CG	GLU	C3050	8.471	14.609	7.410	1.00	36.22	C
ATOM	2197	CD	GLU	C3050	7.005	14.309	7.242	1.00	37.41	C
ATOM	2198	OE1	GLU	C3050	6.543	13.291	7.807	1.00	38.55	O
ATOM	2199	OE2	GLU	C3050	6.318	15.078	6.531	1.00	37.87	O
ATOM	2200	C	GLU	C3050	11.018	13.620	10.116	1.00	32.30	C
ATOM	2201	O	GLU	C3050	11.275	14.412	11.023	1.00	31.96	O
ATOM	2202	N	TYR	C3051	11.130	12.303	10.251	1.00	30.44	N
ATOM	2203	CA	TYR	C3051	11.574	11.715	11.501	1.00	29.38	C
ATOM	2204	CB	TYR	C3051	11.438	10.191	11.433	1.00	28.33	C
ATOM	2205	CG	TYR	C3051	11.936	9.478	12.675	1.00	27.96	C
ATOM	2206	CD1	TYR	C3051	13.234	8.964	12.741	1.00	27.15	C
ATOM	2207	CE1	TYR	C3051	13.712	8.371	13.904	1.00	26.96	C
ATOM	2208	CD2	TYR	C3051	11.127	9.373	13.809	1.00	27.47	C
ATOM	2209	CE2	TYR	C3051	11.593	8.788	14.967	1.00	27.13	C
ATOM	2210	CZ	TYR	C3051	12.885	8.290	15.014	1.00	27.21	C
ATOM	2211	OH	TYR	C3051	13.344	7.735	16.187	1.00	27.00	O
ATOM	2212	C	TYR	C3051	13.019	12.117	11.818	1.00	29.01	C
ATOM	2213	O	TYR	C3051	13.342	12.486	12.946	1.00	28.83	O
ATOM	2214	N	LEU	C3052	13.886	12.063	10.812	1.00	28.73	N
ATOM	2215	CA	LEU	C3052	15.287	12.417	11.009	1.00	28.07	C
ATOM	2216	CB	LEU	C3052	16.105	12.059	9.761	1.00	27.77	C
ATOM	2217	CG	LEU	C3052	17.603	12.372	9.816	1.00	28.06	C
ATOM	2218	CD1	LEU	C3052	18.267	11.639	10.972	1.00	28.26	C
ATOM	2219	CD2	LEU	C3052	18.241	11.957	8.516	1.00	28.46	C
ATOM	2220	C	LEU	C3052	15.419	13.909	11.311	1.00	27.59	C
ATOM	2221	O	LEU	C3052	16.156	14.309	12.217	1.00	26.99	O
ATOM	2222	N	ALA	C3053	14.704	14.727	10.544	1.00	27.06	N
ATOM	2223	CA	ALA	C3053	14.743	16.168	10.738	1.00	26.76	C
ATOM	2224	CB	ALA	C3053	13.898	16.852	9.691	1.00	26.56	C
ATOM	2225	C	ALA	C3053	14.223	16.489	12.134	1.00	26.71	C
ATOM	2226	O	ALA	C3053	14.802	17.298	12.854	1.00	26.43	O
ATOM	2227	N	GLY	C3054	13.130	15.831	12.510	1.00	26.77	N
ATOM	2228	CA	GLY	C3054	12.541	16.043	13.815	1.00	26.67	C
ATOM	2229	C	GLY	C3054	13.512	15.753	14.934	1.00	26.53	C
ATOM	2230	O	GLY	C3054	13.611	16.521	15.882	1.00	26.44	O
ATOM	2231	N	ARG	C3055	14.231	14.643	14.836	1.00	26.68	N
ATOM	2232	CA	ARG	C3055	15.198	14.290	15.870	1.00	26.82	C
ATOM	2233	CB	ARG	C3055	15.705	12.868	15.666	1.00	26.65	C
ATOM	2234	CG	ARG	C3055	14.968	11.843	16.498	1.00	26.91	C
ATOM	2235	CD	ARG	C3055	13.458	11.922	16.298	1.00	27.49	C
ATOM	2236	NE	ARG	C3055	12.759	11.110	17.292	1.00	27.69	N
ATOM	2237	CZ	ARG	C3055	11.442	11.086	17.454	1.00	27.76	C
ATOM	2238	NH1	ARG	C3055	10.662	11.831	16.685	1.00	27.51	N
ATOM	2239	NH2	ARG	C3055	10.906	10.324	18.398	1.00	28.13	N
ATOM	2240	C	ARG	C3055	16.360	15.260	15.869	1.00	26.96	C
ATOM	2241	O	ARG	C3055	16.834	15.667	16.928	1.00	26.54	O
ATOM	2242	N	TRP	C3056	16.816	15.631	14.676	1.00	27.71	N

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ATOM	2243	CA	TRP	C3056	17.917	16.575	14.556	1.00	28.70	C
ATOM	2244	CB	TRP	C3056	18.247	16.837	13.082	1.00	30.14	C
ATOM	2245	CG	TRP	C3056	19.074	18.069	12.881	1.00	32.25	C
ATOM	2246	CD2	TRP	C3056	20.495	18.129	12.703	1.00	33.03	C
ATOM	2247	CE2	TRP	C3056	20.854	19.497	12.662	1.00	33.33	C
ATOM	2248	CE3	TRP	C3056	21.500	17.163	12.579	1.00	33.56	C
ATOM	2249	CD1	TRP	C3056	18.639	19.370	12.930	1.00	32.92	C
ATOM	2250	NE1	TRP	C3056	19.704	20.230	12.803	1.00	33.50	N
ATOM	2251	CZ2	TRP	C3056	22.175	19.920	12.505	1.00	33.41	C
ATOM	2252	CZ3	TRP	C3056	22.818	17.587	12.422	1.00	33.92	C
ATOM	2253	CH2	TRP	C3056	23.141	18.954	12.387	1.00	33.82	C
ATOM	2254	C	TRP	C3056	17.498	17.875	15.230	1.00	28.10	C
ATOM	2255	O	TRP	C3056	18.144	18.357	16.163	1.00	27.48	O
ATOM	2256	N	SER	C3057	16.397	18.429	14.749	1.00	27.65	N
ATOM	2257	CA	SER	C3057	15.868	19.667	15.288	1.00	27.54	C
ATOM	2258	CB	SER	C3057	14.513	19.959	14.654	1.00	27.86	C
ATOM	2259	OG	SER	C3057	14.233	21.344	14.718	1.00	29.93	O
ATOM	2260	C	SER	C3057	15.731	19.622	16.812	1.00	26.85	C
ATOM	2261	O	SER	C3057	16.059	20.588	17.503	1.00	27.24	O
ATOM	2262	N	ALA	C3058	15.257	18.501	17.340	1.00	25.77	N
ATOM	2263	CA	ALA	C3058	15.080	18.369	18.780	1.00	25.50	C
ATOM	2264	CB	ALA	C3058	14.334	17.077	19.094	1.00	25.02	C
ATOM	2265	C	ALA	C3058	16.411	18.409	19.546	1.00	25.26	C
ATOM	2266	O	ALA	C3058	16.513	19.024	20.607	1.00	24.25	O
ATOM	2267	N	LYS	C3059	17.430	17.752	19.000	1.00	25.32	N
ATOM	2268	CA	LYS	C3059	18.736	17.704	19.646	1.00	25.14	C
ATOM	2269	CB	LYS	C3059	19.568	16.577	19.035	1.00	24.87	C
ATOM	2270	CG	LYS	C3059	18.928	15.218	19.254	1.00	24.63	C
ATOM	2271	CD	LYS	C3059	19.667	14.091	18.570	1.00	24.80	C
ATOM	2272	CE	LYS	C3059	18.998	12.746	18.869	1.00	24.92	C
ATOM	2273	NZ	LYS	C3059	19.674	11.614	18.185	1.00	24.83	N
ATOM	2274	C	LYS	C3059	19.466	19.033	19.547	1.00	25.56	C
ATOM	2275	O	LYS	C3059	20.262	19.383	20.415	1.00	25.33	O
ATOM	2276	N	GLU	C3060	19.183	19.784	18.493	1.00	26.00	N
ATOM	2277	CA	GLU	C3060	19.818	21.076	18.326	1.00	26.76	C
ATOM	2278	CB	GLU	C3060	19.568	21.618	16.919	1.00	28.10	C
ATOM	2279	CG	GLU	C3060	20.545	22.717	16.530	1.00	31.38	C
ATOM	2280	CD	GLU	C3060	22.005	22.278	16.691	1.00	33.19	C
ATOM	2281	OE1	GLU	C3060	22.444	21.369	15.947	1.00	33.60	O
ATOM	2282	OE2	GLU	C3060	22.709	22.839	17.569	1.00	34.17	O
ATOM	2283	C	GLU	C3060	19.243	22.023	19.377	1.00	26.31	C
ATOM	2284	O	GLU	C3060	19.985	22.698	20.089	1.00	25.94	O
ATOM	2285	N	ALA	C3061	17.914	22.048	19.477	1.00	25.95	N
ATOM	2286	CA	ALA	C3061	17.221	22.899	20.442	1.00	25.01	C
ATOM	2287	CB	ALA	C3061	15.712	22.700	20.342	1.00	24.05	C
ATOM	2288	C	ALA	C3061	17.696	22.562	21.846	1.00	24.62	C
ATOM	2289	O	ALA	C3061	17.925	23.457	22.663	1.00	24.28	O
ATOM	2290	N	PHE	C3062	17.837	21.271	22.129	1.00	24.17	N
ATOM	2291	CA	PHE	C3062	18.301	20.850	23.440	1.00	24.63	C
ATOM	2292	CB	PHE	C3062	18.224	19.321	23.605	1.00	24.68	C
ATOM	2293	CG	PHE	C3062	18.875	18.828	24.871	1.00	24.04	C
ATOM	2294	CD1	PHE	C3062	20.238	18.538	24.900	1.00	24.34	C
ATOM	2295	CD2	PHE	C3062	18.152	18.756	26.053	1.00	23.91	C
ATOM	2296	CE1	PHE	C3062	20.872	18.189	26.093	1.00	24.30	C
ATOM	2297	CE2	PHE	C3062	18.774	18.411	27.255	1.00	24.14	C
ATOM	2298	CZ	PHE	C3062	20.139	18.128	27.274	1.00	24.07	C
ATOM	2299	C	PHE	C3062	19.732	21.316	23.701	1.00	24.85	C

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ATOM	2300	O	PHE C3062	20.054	21.744	24.804	1.00	24.51	O
ATOM	2301	N	SER C3063	20.589	21.219	22.689	1.00	25.44	N
ATOM	2302	CA	SER C3063	21.976	21.650	22.833	1.00	26.48	C
ATOM	2303	CB	SER C3063	22.777	21.312	21.576	1.00	26.81	C
ATOM	2304	OG	SER C3063	22.872	19.910	21.403	1.00	28.20	O
ATOM	2305	C	SER C3063	22.059	23.149	23.082	1.00	26.77	C
ATOM	2306	O	SER C3063	22.891	23.614	23.859	1.00	26.78	O
ATOM	2307	N	LYS C3064	21.194	23.902	22.416	1.00	26.78	N
ATOM	2308	CA	LYS C3064	21.188	25.342	22.565	1.00	27.25	C
ATOM	2309	CB	LYS C3064	20.379	25.973	21.431	1.00	26.90	C
ATOM	2310	CG	LYS C3064	20.971	25.696	20.059	1.00	26.47	C
ATOM	2311	CD	LYS C3064	20.066	26.159	18.938	1.00	26.20	C
ATOM	2312	CE	LYS C3064	19.799	27.664	18.988	1.00	26.50	C
ATOM	2313	NZ	LYS C3064	18.996	28.088	17.806	1.00	26.49	N
ATOM	2314	C	LYS C3064	20.616	25.718	23.923	1.00	28.08	C
ATOM	2315	O	LYS C3064	20.987	26.738	24.500	1.00	27.79	O
ATOM	2316	N	ALA C3065	19.717	24.882	24.433	1.00	29.11	N
ATOM	2317	CA	ALA C3065	19.111	25.124	25.735	1.00	30.40	C
ATOM	2318	CB	ALA C3065	17.957	24.163	25.968	1.00	29.37	C
ATOM	2319	C	ALA C3065	20.179	24.932	26.804	1.00	31.79	C
ATOM	2320	O	ALA C3065	20.228	25.668	27.786	1.00	31.85	O
ATOM	2321	N	MET C3066	21.035	23.939	26.595	1.00	33.85	N
ATOM	2322	CA	MET C3066	22.114	23.628	27.524	1.00	36.16	C
ATOM	2323	CB	MET C3066	22.666	22.232	27.242	1.00	36.40	C
ATOM	2324	CG	MET C3066	21.804	21.097	27.752	1.00	37.31	C
ATOM	2325	SD	MET C3066	21.824	20.993	29.551	1.00	38.61	S
ATOM	2326	CE	MET C3066	23.502	20.468	29.811	1.00	38.12	C
ATOM	2327	C	MET C3066	23.247	24.638	27.413	1.00	37.57	C
ATOM	2328	O	MET C3066	23.958	24.893	28.379	1.00	37.83	O
ATOM	2329	N	GLY C3067	23.411	25.209	26.226	1.00	39.17	N
ATOM	2330	CA	GLY C3067	24.470	26.177	26.024	1.00	41.14	C
ATOM	2331	C	GLY C3067	25.772	25.475	25.697	1.00	42.59	C
ATOM	2332	O	GLY C3067	26.831	25.822	26.226	1.00	42.74	O
ATOM	2333	N	THR C3068	25.687	24.476	24.825	1.00	43.64	N
ATOM	2334	CA	THR C3068	26.853	23.710	24.418	1.00	44.94	C
ATOM	2335	CB	THR C3068	26.723	22.243	24.877	1.00	45.62	C
ATOM	2336	OG1	THR C3068	27.927	21.529	24.559	1.00	46.68	O
ATOM	2337	CG2	THR C3068	25.539	21.572	24.188	1.00	45.83	C
ATOM	2338	C	THR C3068	26.994	23.755	22.898	1.00	45.32	C
ATOM	2339	O	THR C3068	26.027	24.200	22.242	1.00	45.93	O
ATOM	2340	OXT	THR C3068	28.057	23.348	22.377	1.00	45.68	O
TER	2341		THR C3068						
ATOM	2342	C	GLY C3074	25.582	13.730	21.033	1.00	50.05	C
ATOM	2343	O	GLY C3074	24.831	13.333	21.925	1.00	50.04	O
ATOM	2344	N	GLY C3074	27.008	15.502	22.091	1.00	50.49	N
ATOM	2345	CA	GLY C3074	26.990	14.201	21.354	1.00	50.33	C
ATOM	2346	N	PHE C3075	25.218	13.780	19.755	1.00	49.73	N
ATOM	2347	CA	PHE C3075	23.894	13.345	19.328	1.00	49.39	C
ATOM	2348	CB	PHE C3075	23.740	13.548	17.818	1.00	49.61	C
ATOM	2349	CG	PHE C3075	23.196	14.902	17.447	1.00	50.02	C
ATOM	2350	CD1	PHE C3075	23.555	16.036	18.178	1.00	50.35	C
ATOM	2351	CD2	PHE C3075	22.316	15.045	16.382	1.00	50.13	C
ATOM	2352	CE1	PHE C3075	23.040	17.294	17.854	1.00	50.43	C
ATOM	2353	CE2	PHE C3075	21.794	16.297	16.047	1.00	50.56	C
ATOM	2354	CZ	PHE C3075	22.156	17.424	16.784	1.00	50.60	C
ATOM	2355	C	PHE C3075	23.644	11.894	19.710	1.00	48.79	C
ATOM	2356	O	PHE C3075	22.530	11.523	20.073	1.00	48.53	O

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ATOM	2357	N	GLN	C3076	24.694	11.082	19.642	1.00	48.39	N
ATOM	2358	CA	GLN	C3076	24.602	9.671	19.998	1.00	47.89	C
ATOM	2359	CB	GLN	C3076	25.905	8.944	19.643	1.00	48.47	C
ATOM	2360	CG	GLN	C3076	26.287	9.049	18.175	1.00	49.29	C
ATOM	2361	CD	GLN	C3076	25.242	8.441	17.260	1.00	49.81	C
ATOM	2362	OE1	GLN	C3076	25.206	8.731	16.065	1.00	50.75	O
ATOM	2363	NE2	GLN	C3076	24.391	7.584	17.815	1.00	49.76	N
ATOM	2364	C	GLN	C3076	24.351	9.560	21.492	1.00	47.10	C
ATOM	2365	O	GLN	C3076	24.003	8.493	22.000	1.00	47.45	O
ATOM	2366	N	ASP	C3077	24.533	10.676	22.190	1.00	45.97	N
ATOM	2367	CA	ASP	C3077	24.331	10.727	23.631	1.00	44.90	C
ATOM	2368	CB	ASP	C3077	25.397	11.612	24.271	1.00	46.44	C
ATOM	2369	CG	ASP	C3077	26.800	11.083	24.036	1.00	47.82	C
ATOM	2370	OD1	ASP	C3077	27.081	9.951	24.499	1.00	48.20	O
ATOM	2371	OD2	ASP	C3077	27.610	11.794	23.388	1.00	48.48	O
ATOM	2372	C	ASP	C3077	22.950	11.252	23.975	1.00	43.23	C
ATOM	2373	O	ASP	C3077	22.557	11.280	25.140	1.00	43.47	O
ATOM	2374	N	LEU	C3078	22.219	11.675	22.950	1.00	41.15	N
ATOM	2375	CA	LEU	C3078	20.869	12.193	23.129	1.00	38.63	C
ATOM	2376	CB	LEU	C3078	20.754	13.610	22.558	1.00	38.12	C
ATOM	2377	CG	LEU	C3078	21.787	14.645	23.005	1.00	37.91	C
ATOM	2378	CD1	LEU	C3078	21.511	15.974	22.313	1.00	37.65	C
ATOM	2379	CD2	LEU	C3078	21.735	14.801	24.508	1.00	37.75	C
ATOM	2380	C	LEU	C3078	19.921	11.272	22.376	1.00	36.97	C
ATOM	2381	O	LEU	C3078	20.225	10.833	21.269	1.00	36.76	O
ATOM	2382	N	GLU	C3079	18.778	10.974	22.979	1.00	34.99	N
ATOM	2383	CA	GLU	C3079	17.793	10.112	22.338	1.00	33.02	C
ATOM	2384	CB	GLU	C3079	17.937	8.676	22.842	1.00	33.31	C
ATOM	2385	CG	GLU	C3079	16.818	7.753	22.412	1.00	34.12	C
ATOM	2386	CD	GLU	C3079	17.129	6.298	22.691	1.00	34.85	C
ATOM	2387	OE1	GLU	C3079	17.897	5.701	21.908	1.00	34.18	O
ATOM	2388	OE2	GLU	C3079	16.616	5.754	23.699	1.00	35.70	O
ATOM	2389	C	GLU	C3079	16.365	10.598	22.566	1.00	31.51	C
ATOM	2390	O	GLU	C3079	15.955	10.880	23.695	1.00	31.00	O
ATOM	2391	N	VAL	C3080	15.618	10.707	21.474	1.00	29.65	N
ATOM	2392	CA	VAL	C3080	14.237	11.135	21.542	1.00	28.33	C
ATOM	2393	CB	VAL	C3080	13.987	12.401	20.698	1.00	28.04	C
ATOM	2394	CG1	VAL	C3080	12.497	12.701	20.643	1.00	27.55	C
ATOM	2395	CG2	VAL	C3080	14.739	13.576	21.289	1.00	27.56	C
ATOM	2396	C	VAL	C3080	13.373	10.014	21.007	1.00	28.05	C
ATOM	2397	O	VAL	C3080	13.518	9.600	19.858	1.00	27.43	O
ATOM	2398	N	LEU	C3081	12.482	9.513	21.853	1.00	27.62	N
ATOM	2399	CA	LEU	C3081	11.578	8.445	21.455	1.00	27.82	C
ATOM	2400	CB	LEU	C3081	11.724	7.235	22.391	1.00	27.48	C
ATOM	2401	CG	LEU	C3081	13.107	6.575	22.533	1.00	27.65	C
ATOM	2402	CD1	LEU	C3081	13.069	5.544	23.648	1.00	26.80	C
ATOM	2403	CD2	LEU	C3081	13.534	5.928	21.223	1.00	26.81	C
ATOM	2404	C	LEU	C3081	10.160	9.000	21.528	1.00	27.94	C
ATOM	2405	O	LEU	C3081	9.965	10.194	21.744	1.00	27.66	O
ATOM	2406	N	ASN	C3082	9.177	8.128	21.340	1.00	28.22	N
ATOM	2407	CA	ASN	C3082	7.775	8.523	21.400	1.00	28.52	C
ATOM	2408	CB	ASN	C3082	7.111	8.355	20.024	1.00	28.54	C
ATOM	2409	CG	ASN	C3082	7.584	9.382	19.021	1.00	28.73	C
ATOM	2410	OD1	ASN	C3082	7.295	10.569	19.148	1.00	29.62	O
ATOM	2411	ND2	ASN	C3082	8.321	8.932	18.020	1.00	29.32	N
ATOM	2412	C	ASN	C3082	7.053	7.647	22.422	1.00	28.28	C
ATOM	2413	O	ASN	C3082	7.199	6.421	22.407	1.00	28.06	O

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ATOM	2414	N	ASN C3083	6.280	8.274	23.308	1.00	27.85	N
ATOM	2415	CA	ASN C3083	5.537	7.520	24.304	1.00	27.66	C
ATOM	2416	CB	ASN C3083	5.183	8.398	25.515	1.00	27.64	C
ATOM	2417	CG	ASN C3083	4.203	9.527	25.189	1.00	27.67	C
ATOM	2418	OD1	ASN C3083	3.949	10.384	26.033	1.00	28.51	O
ATOM	2419	ND2	ASN C3083	3.648	9.527	23.986	1.00	27.19	N
ATOM	2420	C	ASN C3083	4.287	6.942	23.664	1.00	27.84	C
ATOM	2421	O	ASN C3083	3.988	7.233	22.501	1.00	27.10	O
ATOM	2422	N	GLU C3084	3.564	6.120	24.419	1.00	28.22	N
ATOM	2423	CA	GLU C3084	2.354	5.483	23.910	1.00	28.64	C
ATOM	2424	CB	GLU C3084	1.655	4.679	25.018	1.00	29.96	C
ATOM	2425	CG	GLU C3084	1.146	5.509	26.187	1.00	31.56	C
ATOM	2426	CD	GLU C3084	2.225	5.820	27.210	1.00	33.17	C
ATOM	2427	OE1	GLU C3084	3.404	5.994	26.821	1.00	33.53	O
ATOM	2428	OE2	GLU C3084	1.888	5.903	28.411	1.00	34.64	O
ATOM	2429	C	GLU C3084	1.367	6.471	23.291	1.00	28.20	C
ATOM	2430	O	GLU C3084	0.559	6.092	22.446	1.00	28.01	O
ATOM	2431	N	ARG C3085	1.435	7.734	23.702	1.00	27.98	N
ATOM	2432	CA	ARG C3085	0.526	8.745	23.165	1.00	27.80	C
ATOM	2433	CB	ARG C3085	0.270	9.847	24.201	1.00	28.19	C
ATOM	2434	CG	ARG C3085	-0.474	9.355	25.427	1.00	29.28	C
ATOM	2435	CD	ARG C3085	-1.296	10.454	26.109	1.00	30.50	C
ATOM	2436	NE	ARG C3085	-2.245	9.862	27.052	1.00	31.26	N
ATOM	2437	CZ	ARG C3085	-1.872	9.221	28.153	1.00	32.48	C
ATOM	2438	NH1	ARG C3085	-0.581	9.110	28.437	1.00	33.70	N
ATOM	2439	NH2	ARG C3085	-2.770	8.663	28.954	1.00	33.05	N
ATOM	2440	C	ARG C3085	1.021	9.369	21.863	1.00	27.34	C
ATOM	2441	O	ARG C3085	0.310	10.158	21.244	1.00	27.35	O
ATOM	2442	N	GLY C3086	2.237	9.016	21.454	1.00	26.82	N
ATOM	2443	CA	GLY C3086	2.788	9.545	20.218	1.00	25.87	C
ATOM	2444	C	GLY C3086	3.607	10.808	20.384	1.00	25.74	C
ATOM	2445	O	GLY C3086	4.109	11.370	19.401	1.00	25.82	O
ATOM	2446	N	ALA C3087	3.753	11.254	21.626	1.00	24.95	N
ATOM	2447	CA	ALA C3087	4.508	12.461	21.920	1.00	24.57	C
ATOM	2448	CB	ALA C3087	3.933	13.147	23.155	1.00	24.64	C
ATOM	2449	C	ALA C3087	5.991	12.183	22.130	1.00	24.46	C
ATOM	2450	O	ALA C3087	6.372	11.277	22.878	1.00	24.54	O
ATOM	2451	N	PRO C3088	6.851	12.964	21.461	1.00	24.09	N
ATOM	2452	CD	PRO C3088	6.501	14.011	20.482	1.00	23.71	C
ATOM	2453	CA	PRO C3088	8.306	12.815	21.572	1.00	23.76	C
ATOM	2454	CB	PRO C3088	8.825	13.714	20.451	1.00	23.93	C
ATOM	2455	CG	PRO C3088	7.781	14.816	20.403	1.00	23.82	C
ATOM	2456	C	PRO C3088	8.799	13.249	22.952	1.00	23.43	C
ATOM	2457	O	PRO C3088	8.162	14.066	23.610	1.00	23.03	O
ATOM	2458	N	TYR C3089	9.925	12.692	23.391	1.00	23.74	N
ATOM	2459	CA	TYR C3089	10.496	13.028	24.698	1.00	24.43	C
ATOM	2460	CB	TYR C3089	9.671	12.400	25.834	1.00	24.30	C
ATOM	2461	CG	TYR C3089	9.843	10.904	25.973	1.00	24.64	C
ATOM	2462	CD1	TYR C3089	10.832	10.363	26.804	1.00	24.62	C
ATOM	2463	CE1	TYR C3089	11.008	8.978	26.911	1.00	24.92	C
ATOM	2464	CD2	TYR C3089	9.033	10.027	25.256	1.00	24.84	C
ATOM	2465	CE2	TYR C3089	9.199	8.643	25.352	1.00	25.43	C
ATOM	2466	CZ	TYR C3089	10.187	8.125	26.178	1.00	25.32	C
ATOM	2467	OH	TYR C3089	10.353	6.761	26.236	1.00	25.52	O
ATOM	2468	C	TYR C3089	11.925	12.521	24.772	1.00	24.85	C
ATOM	2469	O	TYR C3089	12.279	11.552	24.103	1.00	25.10	O
ATOM	2470	N	PHE C3090	12.750	13.171	25.584	1.00	25.52	N

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ATOM	2471	CA	PHE	C3090	14.135	12.742	25.714	1.00	26.19	
ATOM	2472	CB	PHE	C3090	15.038	13.901	26.156	1.00	26.18	C
ATOM	2473	CG	PHE	C3090	15.387	14.852	25.051	1.00	26.76	C
ATOM	2474	CD1	PHE	C3090	14.541	15.912	24.725	1.00	27.13	C
ATOM	2475	CD2	PHE	C3090	16.554	14.675	24.311	1.00	27.22	C
ATOM	2476	CE1	PHE	C3090	14.851	16.792	23.675	1.00	27.19	C
ATOM	2477	CE2	PHE	C3090	16.882	15.548	23.253	1.00	27.68	C
ATOM	2478	CZ	PHE	C3090	16.025	16.608	22.936	1.00	27.50	C
ATOM	2479	C	PHE	C3090	14.277	11.595	26.693	1.00	26.31	C
ATOM	2480	O	PHE	C3090	14.076	11.767	27.895	1.00	27.02	O
ATOM	2481	N	SER	C3091	14.616	10.423	26.169	1.00	26.64	N
ATOM	2482	CA	SER	C3091	14.818	9.237	26.994	1.00	27.16	C
ATOM	2483	CB	SER	C3091	14.549	7.964	26.185	1.00	26.45	C
ATOM	2484	OG	SER	C3091	15.280	7.970	24.974	1.00	27.09	O
ATOM	2485	C	SER	C3091	16.256	9.235	27.513	1.00	27.57	C
ATOM	2486	O	SER	C3091	16.594	8.485	28.424	1.00	27.76	O
ATOM	2487	N	GLN	C3092	17.095	10.086	26.928	1.00	28.18	N
ATOM	2488	CA	GLN	C3092	18.490	10.199	27.340	1.00	29.06	C
ATOM	2489	CB	GLN	C3092	19.355	9.181	26.595	1.00	30.20	C
ATOM	2490	CG	GLN	C3092	20.843	9.363	26.840	1.00	31.72	C
ATOM	2491	CD	GLN	C3092	21.280	8.873	28.211	1.00	32.79	C
ATOM	2492	OE1	GLN	C3092	21.336	7.667	28.461	1.00	33.66	O
ATOM	2493	NE2	GLN	C3092	21.590	9.805	29.105	1.00	33.12	N
ATOM	2494	C	GLN	C3092	19.021	11.601	27.069	1.00	28.89	C
ATOM	2495	O	GLN	C3092	18.889	12.118	25.954	1.00	29.04	O
ATOM	2496	N	ALA	C3093	19.630	12.207	28.088	1.00	28.63	N
ATOM	2497	CA	ALA	C3093	20.179	13.556	27.963	1.00	28.35	C
ATOM	2498	CB	ALA	C3093	19.040	14.565	27.805	1.00	28.23	C
ATOM	2499	C	ALA	C3093	21.047	13.945	29.159	1.00	28.01	C
ATOM	2500	O	ALA	C3093	20.721	13.635	30.307	1.00	28.15	O
ATOM	2501	N	PRO	C3094	22.167	14.640	28.905	1.00	27.81	N
ATOM	2502	CD	PRO	C3094	22.702	15.035	27.590	1.00	27.69	C
ATOM	2503	CA	PRO	C3094	23.066	15.067	29.984	1.00	27.41	C
ATOM	2504	CB	PRO	C3094	24.271	15.625	29.226	1.00	27.35	C
ATOM	2505	CG	PRO	C3094	23.658	16.148	27.960	1.00	27.34	C
ATOM	2506	C	PRO	C3094	22.409	16.108	30.883	1.00	27.24	C
ATOM	2507	O	PRO	C3094	22.992	17.150	31.172	1.00	27.73	O
ATOM	2508	N	PHE	C3095	21.195	15.820	31.330	1.00	26.89	N
ATOM	2509	CA	PHE	C3095	20.457	16.740	32.182	1.00	26.88	C
ATOM	2510	CB	PHE	C3095	19.603	17.680	31.314	1.00	26.34	C
ATOM	2511	CG	PHE	C3095	18.986	18.820	32.081	1.00	25.69	C
ATOM	2512	CD1	PHE	C3095	19.789	19.707	32.796	1.00	24.82	C
ATOM	2513	CD2	PHE	C3095	17.606	18.973	32.133	1.00	24.80	C
ATOM	2514	CE1	PHE	C3095	19.224	20.722	33.556	1.00	24.83	C
ATOM	2515	CE2	PHE	C3095	17.031	19.985	32.890	1.00	24.99	C
ATOM	2516	CZ	PHE	C3095	17.841	20.862	33.605	1.00	24.98	C
ATOM	2517	C	PHE	C3095	19.569	15.927	33.115	1.00	27.25	C
ATOM	2518	O	PHE	C3095	18.924	14.983	32.684	1.00	28.50	O
ATOM	2519	N	SER	C3096	19.525	16.284	34.390	1.00	27.37	N
ATOM	2520	CA	SER	C3096	18.710	15.530	35.332	1.00	27.95	C
ATOM	2521	CB	SER	C3096	19.542	15.174	36.565	1.00	28.67	C
ATOM	2522	OG	SER	C3096	20.425	16.230	36.883	1.00	30.49	O
ATOM	2523	C	SER	C3096	17.403	16.202	35.754	1.00	27.66	C
ATOM	2524	O	SER	C3096	16.663	15.665	36.577	1.00	27.25	O
ATOM	2525	N	GLY	C3097	17.117	17.372	35.192	1.00	26.91	N
ATOM	2526	CA	GLY	C3097	15.874	18.045	35.521	1.00	26.05	C
ATOM	2527	C	GLY	C3097	14.839	17.654	34.488	1.00	25.55	C

ATOM	2528	O	GLY C3097	15.047	16.696	33.745	1.00	25.35	O
ATOM	2529	N	LYS C3098	13.729	18.384	34.428	1.00	25.19	N
ATOM	2530	CA	LYS C3098	12.690	18.086	33.452	1.00	24.30	C
ATOM	2531	CB	LYS C3098	11.320	18.543	33.945	1.00	24.76	C
ATOM	2532	CG	LYS C3098	10.863	17.934	35.237	1.00	25.27	C
ATOM	2533	CD	LYS C3098	9.397	18.241	35.459	1.00	26.28	C
ATOM	2534	CE	LYS C3098	8.973	17.880	36.860	1.00	26.82	C
ATOM	2535	NZ	LYS C3098	9.334	16.468	37.155	1.00	28.61	N
ATOM	2536	C	LYS C3098	12.978	18.774	32.119	1.00	23.93	C
ATOM	2537	O	LYS C3098	13.330	19.954	32.077	1.00	23.38	O
ATOM	2538	N	ILE C3099	12.821	18.019	31.034	1.00	23.34	N
ATOM	2539	CA	ILE C3099	13.033	18.536	29.690	1.00	22.75	C
ATOM	2540	CB	ILE C3099	13.960	17.613	28.874	1.00	22.58	C
ATOM	2541	CG2	ILE C3099	14.345	18.292	27.558	1.00	22.52	C
ATOM	2542	CG1	ILE C3099	15.219	17.291	29.688	1.00	22.55	C
ATOM	2543	CD1	ILE C3099	16.199	16.357	28.985	1.00	22.28	C
ATOM	2544	C	ILE C3099	11.676	18.617	28.990	1.00	22.48	C
ATOM	2545	O	ILE C3099	11.054	17.591	28.699	1.00	22.47	O
ATOM	2546	N	TRP C3100	11.205	19.835	28.743	1.00	21.77	N
ATOM	2547	CA	TRP C3100	9.926	20.008	28.071	1.00	20.54	C
ATOM	2548	CB	TRP C3100	9.180	21.228	28.600	1.00	19.83	C
ATOM	2549	CG	TRP C3100	8.900	21.139	30.066	1.00	19.91	C
ATOM	2550	CD2	TRP C3100	7.806	20.455	30.694	1.00	19.80	C
ATOM	2551	CE2	TRP C3100	7.968	20.605	32.091	1.00	19.84	C
ATOM	2552	CE3	TRP C3100	6.704	19.727	30.211	1.00	19.87	C
ATOM	2553	CD1	TRP C3100	9.660	21.660	31.081	1.00	19.93	C
ATOM	2554	NE1	TRP C3100	9.106	21.343	32.296	1.00	19.91	N
ATOM	2555	CZ2	TRP C3100	7.069	20.058	33.015	1.00	19.27	C
ATOM	2556	CZ3	TRP C3100	5.808	19.181	31.128	1.00	19.78	C
ATOM	2557	CH2	TRP C3100	6.000	19.352	32.520	1.00	20.41	C
ATOM	2558	C	TRP C3100	10.239	20.174	26.611	1.00	20.42	C
ATOM	2559	O	TRP C3100	10.831	21.174	26.195	1.00	21.30	O
ATOM	2560	N	LEU C3101	9.845	19.173	25.838	1.00	19.69	N
ATOM	2561	CA	LEU C3101	10.097	19.143	24.416	1.00	19.35	C
ATOM	2562	CB	LEU C3101	10.903	17.891	24.072	1.00	18.36	C
ATOM	2563	CG	LEU C3101	10.885	17.499	22.592	1.00	18.24	C
ATOM	2564	CD1	LEU C3101	11.677	18.536	21.786	1.00	16.55	C
ATOM	2565	CD2	LEU C3101	11.466	16.097	22.414	1.00	17.56	C
ATOM	2566	C	LEU C3101	8.831	19.145	23.587	1.00	19.41	C
ATOM	2567	O	LEU C3101	7.846	18.493	23.929	1.00	19.45	O
ATOM	2568	N	SER C3102	8.860	19.885	22.490	1.00	19.43	N
ATOM	2569	CA	SER C3102	7.722	19.899	21.596	1.00	19.85	C
ATOM	2570	CB	SER C3102	6.793	21.082	21.873	1.00	19.85	C
ATOM	2571	OG	SER C3102	5.550	20.887	21.212	1.00	19.01	O
ATOM	2572	C	SER C3102	8.269	19.972	20.190	1.00	20.13	C
ATOM	2573	O	SER C3102	9.272	20.637	19.939	1.00	19.67	O
ATOM	2574	N	ILE C3103	7.624	19.251	19.282	1.00	21.04	N
ATOM	2575	CA	ILE C3103	8.037	19.231	17.889	1.00	22.10	C
ATOM	2576	CB	ILE C3103	8.735	17.906	17.523	1.00	21.92	C
ATOM	2577	CG2	ILE C3103	9.127	17.922	16.059	1.00	21.89	C
ATOM	2578	CG1	ILE C3103	9.963	17.681	18.405	1.00	22.24	C
ATOM	2579	CD1	ILE C3103	10.695	16.376	18.094	1.00	22.36	C
ATOM	2580	C	ILE C3103	6.804	19.346	17.010	1.00	23.17	C
ATOM	2581	O	ILE C3103	5.753	18.805	17.338	1.00	23.73	O
ATOM	2582	N	SER C3104	6.932	20.051	15.896	1.00	23.79	N
ATOM	2583	CA	SER C3104	5.829	20.186	14.965	1.00	24.82	C
ATOM	2584	CB	SER C3104	4.989	21.419	15.294	1.00	24.69	C

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ATOM	2585	OG	SER	C3104	3.905	21.546	14.390	1.00	24.65	O
ATOM	2586	C	SER	C3104	6.423	20.295	13.567	1.00	25.82	C
ATOM	2587	O	SER	C3104	7.577	20.690	13.403	1.00	25.83	C
ATOM	2588	N	HIS	C3105	5.646	19.929	12.560	1.00	27.14	N
ATOM	2589	CA	HIS	C3105	6.140	19.996	11.200	1.00	28.67	C
ATOM	2590	CB	HIS	C3105	6.841	18.686	10.819	1.00	30.20	C
ATOM	2591	CG	HIS	C3105	5.901	17.542	10.584	1.00	31.48	C
ATOM	2592	CD2	HIS	C3105	5.474	16.961	9.437	1.00	32.52	C
ATOM	2593	ND1	HIS	C3105	5.252	16.887	11.607	1.00	33.00	N
ATOM	2594	CE1	HIS	C3105	4.465	15.952	11.103	1.00	33.08	C
ATOM	2595	NE2	HIS	C3105	4.580	15.977	9.787	1.00	33.14	N
ATOM	2596	C	HIS	C3105	5.046	20.253	10.187	1.00	29.03	C
ATOM	2597	O	HIS	C3105	3.862	20.082	10.468	1.00	28.87	O
ATOM	2598	N	THR	C3106	5.478	20.682	9.009	1.00	29.70	N
ATOM	2599	CA	THR	C3106	4.609	20.918	7.871	1.00	30.87	C
ATOM	2600	CB	THR	C3106	4.542	22.416	7.492	1.00	30.95	C
ATOM	2601	OG1	THR	C3106	5.853	22.895	7.185	1.00	31.53	O
ATOM	2602	CG2	THR	C3106	3.970	23.231	8.631	1.00	31.66	C
ATOM	2603	C	THR	C3106	5.310	20.118	6.758	1.00	31.46	C
ATOM	2604	O	THR	C3106	6.288	19.411	7.032	1.00	31.17	O
ATOM	2605	N	ASP	C3107	4.834	20.223	5.521	1.00	32.04	N
ATOM	2606	CA	ASP	C3107	5.444	19.475	4.423	1.00	32.74	C
ATOM	2607	CB	ASP	C3107	4.584	19.570	3.151	1.00	33.89	C
ATOM	2608	CG	ASP	C3107	3.252	18.836	3.276	1.00	35.29	C
ATOM	2609	OD1	ASP	C3107	3.059	18.077	4.257	1.00	35.09	O
ATOM	2610	OD2	ASP	C3107	2.396	19.017	2.379	1.00	35.84	O
ATOM	2611	C	ASP	C3107	6.861	19.942	4.096	1.00	32.51	C
ATOM	2612	O	ASP	C3107	7.680	19.158	3.609	1.00	32.63	O
ATOM	2613	N	GLN	C3108	7.152	21.210	4.371	1.00	31.99	N
ATOM	2614	CA	GLN	C3108	8.467	21.768	4.068	1.00	31.59	C
ATOM	2615	CB	GLN	C3108	8.310	23.119	3.362	1.00	32.00	C
ATOM	2616	CG	GLN	C3108	7.482	23.077	2.086	1.00	32.40	C
ATOM	2617	CD	GLN	C3108	7.294	24.452	1.469	0.05	32.28	C
ATOM	2618	OE1	GLN	C3108	6.650	24.597	0.430	0.05	32.30	O
ATOM	2619	NE2	GLN	C3108	7.856	25.469	2.110	0.05	32.28	N
ATOM	2620	C	GLN	C3108	9.391	21.957	5.272	1.00	30.94	C
ATOM	2621	O	GLN	C3108	10.610	21.833	5.145	1.00	30.85	O
ATOM	2622	N	PHE	C3109	8.822	22.258	6.436	1.00	30.12	N
ATOM	2623	CA	PHE	C3109	9.648	22.489	7.610	1.00	29.07	C
ATOM	2624	CB	PHE	C3109	9.652	23.980	7.953	1.00	29.62	C
ATOM	2625	CG	PHE	C3109	10.111	24.857	6.827	1.00	30.64	C
ATOM	2626	CD1	PHE	C3109	9.215	25.275	5.845	1.00	31.09	C
ATOM	2627	CD2	PHE	C3109	11.440	25.259	6.738	1.00	30.59	C
ATOM	2628	CE1	PHE	C3109	9.636	26.084	4.788	1.00	31.21	C
ATOM	2629	CE2	PHE	C3109	11.870	26.066	5.688	1.00	30.89	C
ATOM	2630	CZ	PHE	C3109	10.964	26.480	4.709	1.00	31.08	C
ATOM	2631	C	PHE	C3109	9.292	21.716	8.860	1.00	28.01	C
ATOM	2632	O	PHE	C3109	8.252	21.065	8.936	1.00	28.14	O
ATOM	2633	N	VAL	C3110	10.192	21.798	9.838	1.00	26.84	N
ATOM	2634	CA	VAL	C3110	10.019	21.175	11.140	1.00	25.60	C
ATOM	2635	CB	VAL	C3110	10.766	19.822	11.250	1.00	25.63	C
ATOM	2636	CG1	VAL	C3110	12.268	20.035	11.191	1.00	25.54	C
ATOM	2637	CG2	VAL	C3110	10.387	19.133	12.554	1.00	25.58	C
ATOM	2638	C	VAL	C3110	10.580	22.139	12.187	1.00	24.84	C
ATOM	2639	O	VAL	C3110	11.596	22.798	11.957	1.00	24.75	O
ATOM	2640	N	THR	C3111	9.911	22.239	13.328	1.00	23.62	N
ATOM	2641	CA	THR	C3111	10.377	23.120	14.395	1.00	23.00	C

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ATOM	2642	CB	THR	C3111	9.451	24.332	14.583	1.00	23.10	C
ATOM	2643	OG1	THR	C3111	8.138	23.871	14.924	1.00	24.21	O
ATOM	2644	CG2	THR	C3111	9.369	25.145	13.306	1.00	23.43	C
ATOM	2645	C	THR	C3111	10.424	22.363	15.712	1.00	22.01	C
ATOM	2646	O	THR	C3111	9.616	21.466	15.951	1.00	22.10	O
ATOM	2647	N	ALA	C3112	11.382	22.726	16.554	1.00	21.05	N
ATOM	2648	CA	ALA	C3112	11.532	22.110	17.859	1.00	20.79	C
ATOM	2649	CB	ALA	C3112	12.710	21.135	17.846	1.00	20.00	C
ATOM	2650	C	ALA	C3112	11.741	23.194	18.927	1.00	20.81	C
ATOM	2651	O	ALA	C3112	12.367	24.216	18.672	1.00	20.76	O
ATOM	2652	N	SER	C3113	11.199	22.968	20.118	1.00	20.90	N
ATOM	2653	CA	SER	C3113	11.346	23.909	21.215	1.00	20.61	C
ATOM	2654	CB	SER	C3113	10.061	24.721	21.413	1.00	20.72	C
ATOM	2655	OG	SER	C3113	10.176	25.598	22.526	1.00	20.34	O
ATOM	2656	C	SER	C3113	11.653	23.128	22.477	1.00	20.63	C
ATOM	2657	O	SER	C3113	11.013	22.119	22.759	1.00	20.86	O
ATOM	2658	N	VAL	C3114	12.633	23.599	23.237	1.00	20.54	N
ATOM	2659	CA	VAL	C3114	13.019	22.938	24.463	1.00	20.40	C
ATOM	2660	CB	VAL	C3114	14.349	22.188	24.288	1.00	20.41	C
ATOM	2661	CG1	VAL	C3114	14.872	21.743	25.647	1.00	19.44	C
ATOM	2662	CG2	VAL	C3114	14.143	20.976	23.357	1.00	20.11	C
ATOM	2663	C	VAL	C3114	13.159	23.883	25.644	1.00	20.99	C
ATOM	2664	O	VAL	C3114	13.804	24.938	25.552	1.00	20.99	O
ATOM	2665	N	ILE	C3115	12.543	23.494	26.756	1.00	21.35	N
ATOM	2666	CA	ILE	C3115	12.626	24.269	27.980	1.00	22.44	C
ATOM	2667	CB	ILE	C3115	11.250	24.816	28.428	1.00	22.27	C
ATOM	2668	CG2	ILE	C3115	11.440	25.821	29.562	1.00	22.27	C
ATOM	2669	CG1	ILE	C3115	10.553	25.529	27.262	1.00	22.90	C
ATOM	2670	CD1	ILE	C3115	9.141	25.990	27.582	1.00	22.49	C
ATOM	2671	C	ILE	C3115	13.167	23.360	29.077	1.00	23.09	C
ATOM	2672	O	ILE	C3115	12.570	22.331	29.388	1.00	23.11	O
ATOM	2673	N	LEU	C3116	14.311	23.730	29.640	1.00	23.90	N
ATOM	2674	CA	LEU	C3116	14.912	22.959	30.720	1.00	25.63	C
ATOM	2675	CB	LEU	C3116	16.434	23.051	30.667	1.00	24.96	C
ATOM	2676	CG	LEU	C3116	17.007	22.497	29.366	1.00	24.50	C
ATOM	2677	CD1	LEU	C3116	18.508	22.663	29.350	1.00	23.62	C
ATOM	2678	CD2	LEU	C3116	16.596	21.029	29.236	1.00	24.58	C
ATOM	2679	C	LEU	C3116	14.418	23.524	32.036	1.00	27.20	C
ATOM	2680	O	LEU	C3116	14.412	24.743	32.236	1.00	27.34	O
ATOM	2681	N	GLU	C3117	13.998	22.636	32.930	1.00	28.70	N
ATOM	2682	CA	GLU	C3117	13.490	23.061	34.226	1.00	30.61	C
ATOM	2683	CB	GLU	C3117	11.957	22.951	34.249	1.00	30.11	C
ATOM	2684	CG	GLU	C3117	11.322	23.257	35.592	1.00	30.29	C
ATOM	2685	CD	GLU	C3117	9.808	23.100	35.585	1.00	30.63	C
ATOM	2686	OE1	GLU	C3117	9.313	22.085	35.043	1.00	30.65	O
ATOM	2687	OE2	GLU	C3117	9.114	23.985	36.133	1.00	30.59	O
ATOM	2688	C	GLU	C3117	14.089	22.241	35.357	1.00	31.98	C
ATOM	2689	O	GLU	C3117	14.353	21.052	35.205	1.00	32.46	O
ATOM	2690	N	GLU	C3118	14.321	22.900	36.485	1.00	33.79	N
ATOM	2691	CA	GLU	C3118	14.863	22.257	37.674	1.00	35.41	C
ATOM	2692	CB	GLU	C3118	16.264	22.779	37.990	1.00	36.58	C
ATOM	2693	CG	GLU	C3118	17.396	21.983	37.366	1.00	38.74	C
ATOM	2694	CD	GLU	C3118	17.335	20.507	37.733	1.00	40.59	C
ATOM	2695	OE1	GLU	C3118	16.936	20.189	38.881	1.00	41.34	O
ATOM	2696	OE2	GLU	C3118	17.700	19.669	36.877	1.00	41.36	O
ATOM	2697	C	GLU	C3118	13.940	22.578	38.837	1.00	36.11	C
ATOM	2698	O	GLU	C3118	13.351	21.632	39.403	1.00	37.15	O

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ATOM	2699	OXT	GLU	C3118	13.813	23.778	39.156	1.00	36.00	O
TER	2700		GLU	C3118						
ATOM	2701	O	HOH	W 1	8.576	28.003	19.046	1.00	26.06	O
ATOM	2702	O	HOH	W 2	11.001	13.668	14.737	1.00	16.99	O
ATOM	2703	O	HOH	W 3	-5.347	33.382	14.724	1.00	27.55	O
ATOM	2704	O	HOH	W 4	19.615	31.388	19.825	1.00	18.58	O
ATOM	2705	O	HOH	W 5	-11.216	36.113	18.617	1.00	38.18	O
ATOM	2706	O	HOH	W 6	0.159	37.746	18.293	1.00	26.61	O
ATOM	2707	O	HOH	W 7	1.276	36.190	20.543	1.00	28.54	O
ATOM	2708	O	HOH	W 8	12.334	34.067	2.484	1.00	24.27	O
ATOM	2709	O	HOH	W 9	0.255	6.277	33.704	1.00	25.24	O
ATOM	2710	O	HOH	W 10	18.182	37.167	27.027	1.00	23.05	O
ATOM	2711	O	HOH	W 11	-4.577	31.410	31.511	1.00	38.36	O
ATOM	2712	O	HOH	W 12	-1.511	45.557	32.920	1.00	53.67	O
ATOM	2713	O	HOH	W 13	18.448	25.653	12.095	1.00	26.48	O
ATOM	2714	O	HOH	W 14	3.912	2.648	29.570	1.00	20.27	O
ATOM	2715	O	HOH	W 15	-11.595	44.974	29.760	1.00	29.90	O
ATOM	2716	O	HOH	W 16	25.183	18.367	31.463	1.00	31.92	O
ATOM	2717	O	HOH	W 17	1.272	28.443	2.735	1.00	24.74	O
ATOM	2718	O	HOH	W 18	19.674	51.864	7.542	1.00	32.28	O
ATOM	2719	O	HOH	W 19	7.406	44.679	0.671	1.00	37.76	O
ATOM	2720	O	HOH	W 20	9.102	25.639	41.587	1.00	37.75	O
ATOM	2721	O	HOH	W 21	-2.117	42.358	29.367	1.00	23.51	O
ATOM	2722	O	HOH	W 22	12.144	15.091	31.453	1.00	40.21	O
ATOM	2723	O	HOH	W 23	20.216	37.895	14.318	1.00	23.27	O
ATOM	2724	O	HOH	W 24	15.409	30.644	36.448	1.00	34.67	O
ATOM	2725	O	HOH	W 25	8.888	28.186	21.855	1.00	19.15	O
ATOM	2726	O	HOH	W 26	-6.604	42.281	29.309	1.00	52.83	O
ATOM	2727	O	HOH	W 27	20.104	53.238	15.360	1.00	42.16	O
ATOM	2728	O	HOH	W 28	24.519	36.311	10.567	1.00	45.76	O
ATOM	2729	O	HOH	W 29	17.712	23.831	7.356	1.00	49.27	O
ATOM	2730	O	HOH	W 30	-6.885	28.651	32.939	1.00	45.10	O
ATOM	2731	O	HOH	W 31	-4.869	16.926	12.390	1.00	39.22	O
ATOM	2732	O	HOH	W 32	20.935	28.085	34.073	1.00	42.57	O
ATOM	2733	O	HOH	W 33	21.868	15.456	38.834	1.00	28.55	O
ATOM	2734	O	HOH	W 34	30.171	27.602	20.593	1.00	34.40	O
ATOM	2735	O	HOH	W 35	20.651	33.038	6.426	1.00	38.43	O
ATOM	2736	O	HOH	W 36	10.238	19.208	1.078	1.00	45.56	O
ATOM	2737	O	HOH	W 37	13.283	54.499	28.613	1.00	29.72	O
ATOM	2738	O	HOH	W 38	-11.211	32.999	2.256	1.00	31.79	O
ATOM	2739	O	HOH	W 39	9.887	29.798	36.670	1.00	39.85	O
ATOM	2740	O	HOH	W 40	18.546	10.765	31.009	1.00	38.20	O
ATOM	2741	O	HOH	W 41	24.510	24.190	30.902	1.00	36.49	O
ATOM	2742	O	HOH	W 42	30.384	38.300	20.406	1.00	44.88	O
ATOM	2743	O	HOH	W 43	18.885	28.685	22.975	1.00	28.61	O
ATOM	2744	O	HOH	W 44	2.917	33.308	36.961	1.00	38.63	O
ATOM	2745	O	HOH	W 45	20.025	37.807	29.500	1.00	35.61	O
ATOM	2746	O	HOH	W 46	8.253	16.151	27.102	1.00	45.55	O
ATOM	2747	O	HOH	W 47	7.572	21.032	36.495	1.00	16.73	O
ATOM	2748	O	HOH	W 48	19.451	28.611	27.413	1.00	35.89	O
ATOM	2749	O	HOH	W 49	11.476	8.815	36.574	1.00	25.09	O
ATOM	2750	O	HOH	W 50	14.236	27.513	3.754	1.00	34.47	O
ATOM	2751	O	HOH	W 51	5.103	9.140	28.941	1.00	41.40	O
ATOM	2752	O	HOH	W 52	34.054	32.834	25.976	1.00	45.36	O
ATOM	2753	O	HOH	W 53	12.068	21.222	2.790	1.00	39.74	O
ATOM	2754	O	HOH	W 54	2.919	30.077	39.125	1.00	41.17	O
ATOM	2755	O	HOH	W 55	27.605	12.175	17.892	1.00	50.62	O

ATOM	2756	O	HOH	W	56	-12.868	26.916	30.495	1.00	43.36	O
ATOM	2757	O	HOH	W	57	9.027	13.611	36.816	1.00	43.33	O
ATOM	2758	O	HOH	W	58	7.507	37.992	7.686	1.00	29.16	O
ATOM	2759	O	HOH	W	59	18.024	26.076	4.943	1.00	45.92	O
ATOM	2760	O	HOH	W	60	21.889	53.044	19.501	1.00	41.90	O
ATOM	2761	O	HOH	W	61	34.566	32.372	30.692	1.00	50.00	O
ATOM	2762	O	HOH	W	62	5.289	23.268	4.539	1.00	26.10	O
ATOM	2763	O	HOH	W	63	21.724	28.905	29.036	1.00	54.44	O
ATOM	2764	O	HOH	W	64	7.000	28.471	37.399	1.00	36.37	O
ATOM	2765	O	HOH	W	65	31.382	30.725	21.632	1.00	32.29	O
ATOM	2766	O	HOH	W	66	28.182	46.827	4.332	1.00	48.39	O
ATOM	2767	O	HOH	W	67	7.410	9.794	14.247	1.00	49.84	O
ATOM	2768	O	HOH	W	68	31.517	25.424	22.117	1.00	43.26	O
ATOM	2769	O	HOH	W	69	-5.301	33.373	34.239	1.00	34.98	O
ATOM	2770	O	HOH	W	70	36.871	33.074	30.281	1.00	41.21	O
ATOM	2771	O	HOH	W	71	24.903	41.702	17.966	1.00	33.98	O
ATOM	2772	O	HOH	W	72	17.963	38.386	31.211	1.00	35.46	O
ATOM	2773	O	HOH	W	73	20.723	48.845	4.797	1.00	50.12	O
ATOM	2774	O	HOH	W	74	-8.379	30.159	31.227	1.00	58.73	O
ATOM	2775	O	HOH	W	75	-1.343	19.609	10.013	1.00	53.09	O
ATOM	2776	O	HOH	W	76	15.642	12.801	31.165	1.00	65.31	O
ATOM	2777	O	HOH	W	77	-14.605	25.461	6.171	1.00	36.87	O
ATOM	2778	O	HOH	W	78	8.718	39.594	0.632	1.00	44.46	O
ATOM	2779	O	HOH	W	79	22.426	26.766	11.895	1.00	39.57	O
ATOM	2780	O	HOH	W	80	1.403	12.128	29.940	1.00	41.04	O
ATOM	2781	O	HOH	W	81	9.724	26.576	37.441	1.00	52.28	O
ATOM	2782	O	HOH	W	82	-20.852	35.093	18.162	1.00	32.23	O
ATOM	2783	O	HOH	W	83	-22.727	33.513	17.160	1.00	46.00	O
ATOM	2784	O	HOH	W	84	-9.764	38.910	4.301	1.00	38.92	O
ATOM	2785	O	HOH	W	85	4.067	40.345	32.364	1.00	54.10	O
ATOM	2786	O	HOH	W	86	8.783	44.044	3.423	1.00	45.06	O
ATOM	2787	O	HOH	W	87	19.259	34.587	26.113	1.00	34.60	O
ATOM	2788	O	HOH	W	88	19.168	34.051	31.232	1.00	40.61	O
ATOM	2789	O	HOH	W	89	-17.637	26.480	8.650	1.00	35.76	O
ATOM	2790	O	HOH	W	90	5.883	33.114	4.115	1.00	36.72	O
ATOM	2791	O	HOH	W	91	5.401	9.271	3.439	1.00	23.12	O
ATOM	2792	O	HOH	W	92	16.578	55.625	9.782	1.00	34.03	O
ATOM	2793	O	HOH	W	93	-6.649	22.603	36.177	1.00	49.27	O
ATOM	2794	O	HOH	W	94	12.263	32.477	39.013	1.00	44.31	O
ATOM	2795	O	HOH	W	95	11.064	51.183	10.359	1.00	46.81	O
ATOM	2796	O	HOH	W	96	-16.103	28.570	5.999	1.00	45.48	O
ATOM	2797	O	HOH	W	97	19.096	56.580	8.669	1.00	48.52	O
ATOM	2798	O	HOH	W	98	-0.441	38.083	25.842	1.00	30.49	O
ATOM	2799	O	HOH	W	99	18.821	50.159	23.847	1.00	35.93	O
ATOM	2800	O	HOH	W	100	21.593	29.439	22.517	1.00	46.08	O
ATOM	2801	O	HOH	W	101	24.154	31.033	26.613	1.00	41.03	O
ATOM	2802	O	HOH	W	102	18.634	43.303	30.404	1.00	40.85	O
ATOM	2803	O	HOH	W	103	19.981	32.247	35.107	1.00	36.43	O
ATOM	2804	O	HOH	W	104	-10.088	29.062	1.003	1.00	36.43	O
ATOM	2805	O	HOH	W	105	-18.529	19.631	5.334	1.00	38.77	O
ATOM	2806	O	HOH	W	106	-20.984	28.385	15.095	1.00	40.22	O
ATOM	2807	O	HOH	W	107	-19.013	26.762	15.815	1.00	32.06	O
ATOM	2808	O	HOH	W	108	-14.266	19.001	19.100	1.00	41.92	O
ATOM	2809	O	HOH	W	109	7.301	10.694	11.123	1.00	37.73	O
ATOM	2810	O	HOH	W	110	24.398	18.549	24.386	1.00	37.13	O
ATOM	2811	O	HOH	W	111	2.259	41.877	17.603	1.00	33.35	O
ATOM	2812	O	HOH	W	112	22.143	19.952	8.110	1.00	46.84	O

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ATOM	2813	O	HOH W 113	-4.490	20.867	8.897	1.00	50.63	O
ATOM	2814	O	HOH W 114	0.274	4.462	29.620	1.00	46.55	O
ATOM	2815	O	HOH W 115	9.966	5.205	19.879	1.00	29.38	O
ATOM	2816	O	HOH W 116	11.609	14.420	39.214	1.00	45.17	O
ATOM	2817	O	HOH W 117	21.720	11.206	36.139	1.00	23.23	O
ATOM	2818	O	HOH W 118	21.825	46.932	3.417	1.00	42.90	O
ATOM	2819	O	HOH W 119	0.067	30.700	1.199	1.00	54.52	O
ATOM	2820	O	HOH W 120	10.218	22.583	38.806	1.00	43.46	O
ATOM	2821	O	HOH W 121	0.686	27.966	42.608	1.00	42.57	O
ATOM	2822	O	HOH W 122	23.786	35.976	16.687	1.00	27.98	O
ATOM	2823	O	HOH W 123	25.685	36.926	14.983	1.00	35.19	O
ATOM	2824	O	HOH W 124	5.593	17.615	20.205	1.00	22.22	O
ATOM	2825	O	HOH W 125	-3.621	36.444	16.059	1.00	38.53	O
ATOM	2826	O	HOH W 126	-6.822	38.370	14.785	1.00	35.77	O
ATOM	2827	O	HOH W 127	8.658	28.063	15.129	1.00	32.14	O
ATOM	2828	O	HOH W 128	-4.302	30.987	36.514	1.00	38.06	O
ATOM	2829	O	HOH W 129	-1.650	29.068	38.757	1.00	30.65	O
TER	2830		HOH W 129						
END									

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TABLE 4

REMARK coordinates from restrained individual B-factor refinement
 REMARK refinement resolution: 500.0 - 2.05 Å
 REMARK starting r= 0.2078 free_r= 0.2459
 REMARK final r= 0.2076 free_r= 0.2466
 REMARK B rmsd for bonded mainchain atoms= 1.338 target= 1.5
 REMARK B rmsd for bonded sidechain atoms= 2.017 target= 2.0
 REMARK B rmsd for angle mainchain atoms= 2.137 target= 2.0
 REMARK B rmsd for angle sidechain atoms= 3.077 target= 2.5
 REMARK wa= 1.98578
 REMARK rweight=0.12477
 REMARK target= mlf . steps= 30
 REMARK sg= C2 a= 116.043 b= 59.291 c= 49.629 alpha= 90 beta= 98.768 gamma= 90
 REMARK parameter file 1 : CNX_TOPPAR:protein_rep.param
 REMARK parameter file 2 : CNX_TOPPAR:water_rep.param
 REMARK parameter file 3 : CNX_TOPPAR:ion.param
 REMARK molecular structure file: generate.psf
 REMARK input coordinates: minimize.pdb
 REMARK reflection file= ../data/x-ray_data.cv
 REMARK ncs= none
 REMARK B-correction resolution: 6.0 - 2.05
 REMARK initial B-factor correction applied to fobs :
 REMARK B11= 0.091 B22= -2.051 B33= 1.959
 REMARK B12= 0.000 B13= 0.271 B23= 0.000
 REMARK B-factor correction applied to coordinate array B: -0.022
 REMARK bulk solvent: (Mask) density level= 0.368883 e/Å³, B-factor= 52.2583 Å²
 REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
 REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
 REMARK theoretical total number of refl. in resol. range: 21048 (100.0 %)
 REMARK number of unobserved reflections (no entry or |F|=0): 1611 (7.7 %)
 REMARK number of reflections rejected: 0 (0.0 %)
 REMARK total number of reflections used: 19437 (92.3 %)
 REMARK number of reflections in working set: 18494 (87.9 %)
 REMARK number of reflections in test set: 943 (4.5 %)
 REMARK FILENAME="acps_native 2.pdb":

created by user: rx83663

REMARK Written by CNX VERSION:2000

ATOM	1	CB	MET A1003	36.109	5.413	19.351	1.00	32.48	C
ATOM	2	CG	MET A1003	35.473	5.856	20.649	1.00	37.79	C
ATOM	3	SD	MET A1003	36.607	6.848	21.649	1.00	45.89	S
ATOM	4	CE	MET A1003	36.791	8.314	20.599	1.00	43.10	C
ATOM	5	C	MET A1003	33.900	5.073	18.225	1.00	27.65	C
ATOM	6	O	MET A1003	33.795	6.027	17.463	1.00	25.93	O
ATOM	7	N	MET A1003	35.971	4.133	17.240	1.00	28.87	N
ATOM	8	CA	MET A1003	35.262	4.452	18.515	1.00	29.37	C
ATOM	9	N	ILE A1004	32.860	4.513	18.832	1.00	27.12	N
ATOM	10	CA	ILE A1004	31.500	5.005	18.649	1.00	25.95	C
ATOM	11	CB	ILE A1004	30.463	3.928	19.020	1.00	25.43	C
ATOM	12	CG2	ILE A1004	29.048	4.516	18.954	1.00	24.89	C
ATOM	13	CG1	ILE A1004	30.604	2.730	18.076	1.00	24.55	C
ATOM	14	CD1	ILE A1004	29.619	1.616	18.347	1.00	26.14	C
ATOM	15	C	ILE A1004	31.289	6.214	19.546	1.00	27.18	C
ATOM	16	O	ILE A1004	31.700	6.212	20.703	1.00	27.39	O
ATOM	17	N	VAL A1005	30.655	7.251	19.018	1.00	24.87	N
ATOM	18	CA	VAL A1005	30.420	8.439	19.818	1.00	25.40	C
ATOM	19	CB	VAL A1005	31.326	9.589	19.346	1.00	26.42	C
ATOM	20	CG1	VAL A1005	32.781	9.240	19.648	1.00	26.20	C
ATOM	21	CG2	VAL A1005	31.153	9.818	17.860	1.00	27.65	C

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ATOM	22	C	VAL A1005	28.955	8.857	19.794	1.00	24.30	C
ATOM	23	O	VAL A1005	28.592	9.964	20.195	1.00	23.88	O
ATOM	24	N	GLY A1006	28.102	7.952	19.331	1.00	23.00	N
ATOM	25	CA	GLY A1006	26.687	8.261	19.290	1.00	19.45	C
ATOM	26	C	GLY A1006	25.887	7.300	18.443	1.00	18.59	C
ATOM	27	O	GLY A1006	26.396	6.730	17.480	1.00	16.47	O
ATOM	28	N	HIS A1007	24.621	7.130	18.809	1.00	16.39	N
ATOM	29	CA	HIS A1007	23.720	6.249	18.092	1.00	15.38	C
ATOM	30	CB	HIS A1007	23.825	4.818	18.636	1.00	17.15	C
ATOM	31	CG	HIS A1007	22.877	3.853	17.993	1.00	18.41	C
ATOM	32	CD2	HIS A1007	22.075	2.902	18.528	1.00	17.85	C
ATOM	33	ND1	HIS A1007	22.690	3.789	16.628	1.00	17.93	N
ATOM	34	CE1	HIS A1007	21.811	2.841	16.351	1.00	19.72	C
ATOM	35	NE2	HIS A1007	21.423	2.288	17.486	1.00	18.78	N
ATOM	36	C	HIS A1007	22.302	6.768	18.262	1.00	16.54	C
ATOM	37	O	HIS A1007	21.883	7.113	19.364	1.00	15.23	O
ATOM	38	N	GLY A1008	21.568	6.844	17.162	1.00	13.65	N
ATOM	39	CA	GLY A1008	20.204	7.303	17.250	1.00	14.59	C
ATOM	40	C	GLY A1008	19.364	6.591	16.220	1.00	16.81	C
ATOM	41	O	GLY A1008	19.864	6.208	15.154	1.00	14.95	O
ATOM	42	N	ILE A1009	18.089	6.394	16.538	1.00	16.05	N
ATOM	43	CA	ILE A1009	17.186	5.750	15.603	1.00	16.53	C
ATOM	44	CB	ILE A1009	16.841	4.297	16.012	1.00	16.37	C
ATOM	45	CG2	ILE A1009	18.087	3.436	15.974	1.00	15.97	C
ATOM	46	CG1	ILE A1009	16.168	4.284	17.393	1.00	14.54	C
ATOM	47	CD1	ILE A1009	15.697	2.907	17.831	1.00	15.26	C
ATOM	48	C	ILE A1009	15.898	6.541	15.578	1.00	18.21	C
ATOM	49	O	ILE A1009	15.681	7.423	16.408	1.00	18.91	O
ATOM	50	N	ASP A1010	15.041	6.218	14.623	1.00	19.48	N
ATOM	51	CA	ASP A1010	13.759	6.880	14.520	1.00	20.47	C
ATOM	52	CB	ASP A1010	13.930	8.295	13.969	1.00	21.20	C
ATOM	53	CG	ASP A1010	12.614	9.013	13.813	1.00	24.68	C
ATOM	54	OD1	ASP A1010	12.002	8.901	12.725	1.00	25.58	O
ATOM	55	OD2	ASP A1010	12.182	9.675	14.785	1.00	21.51	O
ATOM	56	C	ASP A1010	12.822	6.094	13.630	1.00	22.13	C
ATOM	57	O	ASP A1010	13.249	5.485	12.641	1.00	21.63	O
ATOM	58	N	ILE A1011	11.548	6.074	14.011	1.00	20.69	N
ATOM	59	CA	ILE A1011	10.525	5.403	13.226	1.00	22.73	C
ATOM	60	CB	ILE A1011	10.019	4.103	13.903	1.00	22.88	C
ATOM	61	CG2	ILE A1011	9.505	4.398	15.320	1.00	23.25	C
ATOM	62	CG1	ILE A1011	8.922	3.476	13.033	1.00	24.40	C
ATOM	63	CD1	ILE A1011	8.496	2.096	13.466	1.00	25.25	C
ATOM	64	C	ILE A1011	9.394	6.412	13.094	1.00	23.63	C
ATOM	65	O	ILE A1011	9.016	7.061	14.071	1.00	23.36	O
ATOM	66	N	GLU A1012	8.869	6.549	11.882	1.00	25.11	N
ATOM	67	CA	GLU A1012	7.810	7.514	11.602	1.00	24.91	C
ATOM	68	CB	GLU A1012	8.421	8.737	10.916	1.00	25.40	C
ATOM	69	CG	GLU A1012	7.413	9.773	10.433	1.00	29.98	C
ATOM	70	CD	GLU A1012	6.857	10.631	11.552	1.00	32.43	C
ATOM	71	OE1	GLU A1012	5.954	11.447	11.274	1.00	36.73	O
ATOM	72	OE2	GLU A1012	7.319	10.497	12.704	1.00	35.01	O
ATOM	73	C	GLU A1012	6.705	6.952	10.716	1.00	24.25	C
ATOM	74	O	GLU A1012	6.975	6.186	9.789	1.00	22.71	O
ATOM	75	N	GLU A1013	5.462	7.331	11.006	1.00	24.75	N
ATOM	76	CA	GLU A1013	4.326	6.895	10.195	1.00	25.26	C
ATOM	77	CB	GLU A1013	3.006	7.010	10.956	1.00	27.28	C
ATOM	78	CG	GLU A1013	2.782	6.015	12.056	1.00	32.89	C

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ATOM	79	CD	GLU	A1013	1.337	6.025	12.512	1.00	36.18	C
ATOM	80	OE1	GLU	A1013	0.451	5.792	11.661	1.00	38.66	O
ATOM	81	OE2	GLU	A1013	1.083	6.270	13.709	1.00	39.09	O
ATOM	82	C	GLU	A1013	4.253	7.848	9.013	1.00	24.28	C
ATOM	83	O	GLU	A1013	4.254	9.062	9.197	1.00	24.07	O
ATOM	84	N	LEU	A1014	4.179	7.308	7.805	1.00	23.86	N
ATOM	85	CA	LEU	A1014	4.103	8.149	6.615	1.00	24.45	C
ATOM	86	CB	LEU	A1014	4.150	7.274	5.362	1.00	25.54	C
ATOM	87	CG	LEU	A1014	5.402	6.397	5.287	1.00	28.12	C
ATOM	88	CD1	LEU	A1014	5.266	5.386	4.162	1.00	28.37	C
ATOM	89	CD2	LEU	A1014	6.627	7.284	5.082	1.00	29.49	C
ATOM	90	C	LEU	A1014	2.838	9.010	6.611	1.00	23.06	C
ATOM	91	O	LEU	A1014	2.838	10.126	6.083	1.00	22.31	O
ATOM	92	N	ALA	A1015	1.768	8.490	7.210	1.00	22.30	N
ATOM	93	CA	ALA	A1015	0.489	9.202	7.284	1.00	21.59	C
ATOM	94	CB	ALA	A1015	-0.529	8.372	8.068	1.00	20.65	C
ATOM	95	C	ALA	A1015	0.664	10.568	7.938	1.00	21.21	C
ATOM	96	O	ALA	A1015	0.101	11.562	7.483	1.00	19.58	O
ATOM	97	N	SER	A1016	1.442	10.605	9.017	1.00	21.38	N
ATOM	98	CA	SER	A1016	1.711	11.848	9.728	1.00	22.18	C
ATOM	99	CB	SER	A1016	2.587	11.569	10.951	1.00	22.67	C
ATOM	100	OG	SER	A1016	2.034	10.523	11.733	1.00	29.64	O
ATOM	101	C	SER	A1016	2.428	12.825	8.800	1.00	22.03	C
ATOM	102	O	SER	A1016	2.134	14.020	8.786	1.00	24.58	O
ATOM	103	N	ILE	A1017	3.382	12.319	8.027	1.00	21.56	N
ATOM	104	CA	ILE	A1017	4.112	13.177	7.104	1.00	22.10	C
ATOM	105	CB	ILE	A1017	5.336	12.454	6.523	1.00	22.24	C
ATOM	106	CG2	ILE	A1017	5.975	13.312	5.432	1.00	21.89	C
ATOM	107	CG1	ILE	A1017	6.342	12.174	7.641	1.00	22.58	C
ATOM	108	CD1	ILE	A1017	6.904	13.440	8.287	1.00	24.27	C
ATOM	109	C	ILE	A1017	3.207	13.633	5.957	1.00	22.93	C
ATOM	110	O	ILE	A1017	3.244	14.793	5.549	1.00	23.54	O
ATOM	111	N	GLU	A1018	2.388	12.726	5.440	1.00	23.95	N
ATOM	112	CA	GLU	A1018	1.494	13.096	4.348	1.00	26.57	C
ATOM	113	CB	GLU	A1018	0.794	11.862	3.775	1.00	29.38	C
ATOM	114	CG	GLU	A1018	-0.244	12.197	2.709	1.00	33.05	C
ATOM	115	CD	GLU	A1018	-0.655	10.987	1.900	1.00	36.21	C
ATOM	116	OE1	GLU	A1018	-0.803	9.897	2.495	1.00	38.49	O
ATOM	117	OE2	GLU	A1018	-0.840	11.131	0.672	1.00	38.02	O
ATOM	118	C	GLU	A1018	0.466	14.116	4.819	1.00	25.75	C
ATOM	119	O	GLU	A1018	0.115	15.032	4.082	1.00	25.64	O
ATOM	120	N	SER	A1019	-0.011	13.960	6.052	1.00	27.25	N
ATOM	121	CA	SER	A1019	-0.980	14.893	6.615	1.00	27.84	C
ATOM	122	CB	SER	A1019	-1.436	14.425	8.000	1.00	28.92	C
ATOM	123	OG	SER	A1019	-2.107	13.176	7.929	1.00	31.15	O
ATOM	124	C	SER	A1019	-0.338	16.275	6.734	1.00	28.62	C
ATOM	125	O	SER	A1019	-0.956	17.289	6.400	1.00	27.65	O
ATOM	126	N	ALA	A1020	0.907	16.302	7.209	1.00	28.27	N
ATOM	127	CA	ALA	A1020	1.650	17.545	7.374	1.00	30.56	C
ATOM	128	CB	ALA	A1020	3.020	17.267	8.005	1.00	30.65	C
ATOM	129	C	ALA	A1020	1.823	18.267	6.045	1.00	31.87	C
ATOM	130	O	ALA	A1020	1.686	19.487	5.976	1.00	32.82	O
ATOM	131	N	VAL	A1021	2.127	17.513	4.992	1.00	33.76	N
ATOM	132	CA	VAL	A1021	2.304	18.099	3.666	1.00	34.05	C
ATOM	133	CB	VAL	A1021	2.830	17.057	2.656	1.00	34.30	C
ATOM	134	CG1	VAL	A1021	2.878	17.660	1.263	1.00	31.58	C
ATOM	135	CG2	VAL	A1021	4.213	16.577	3.073	1.00	33.12	C

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ATOM	193	C	ALA A1028	9.779	21.204	3.371	1.00	29.38	C
ATOM	194	O	ALA A1028	10.940	20.850	3.579	1.00	28.07	O
ATOM	195	N	LYS A1029	9.424	22.463	3.127	1.00	30.57	N
ATOM	196	CA	LYS A1029	10.372	23.574	3.062	1.00	32.15	C
ATOM	197	CB	LYS A1029	9.608	24.867	2.765	1.00	34.73	C
ATOM	198	CG	LYS A1029	10.076	25.630	1.535	1.00	38.51	C
ATOM	199	CD	LYS A1029	11.365	26.404	1.799	1.00	41.30	C
ATOM	200	CE	LYS A1029	11.653	27.390	0.669	1.00	41.77	C
ATOM	201	NZ	LYS A1029	12.865	28.214	0.927	1.00	43.68	N
ATOM	202	C	LYS A1029	11.173	23.729	4.357	1.00	31.51	C
ATOM	203	O	LYS A1029	12.362	24.043	4.326	1.00	31.47	O
ATOM	204	N	ARG A1030	10.521	23.512	5.495	1.00	31.52	N
ATOM	205	CA	ARG A1030	11.195	23.626	6.787	1.00	32.17	C
ATOM	206	CB	ARG A1030	10.188	23.625	7.949	1.00	34.49	C
ATOM	207	CG	ARG A1030	9.287	24.838	8.058	1.00	38.44	C
ATOM	208	CD	ARG A1030	8.775	25.030	9.497	1.00	41.54	C
ATOM	209	NE	ARG A1030	8.304	23.796	10.134	1.00	44.99	N
ATOM	210	CZ	ARG A1030	9.084	22.932	10.786	1.00	47.20	C
ATOM	211	NH1	ARG A1030	10.388	23.157	10.898	1.00	48.13	N
ATOM	212	NH2	ARG A1030	8.562	21.841	11.337	1.00	47.12	N
ATOM	213	C	ARG A1030	12.145	22.460	7.013	1.00	30.09	C
ATOM	214	O	ARG A1030	13.248	22.631	7.530	1.00	29.93	O
ATOM	215	N	VAL A1031	11.696	21.272	6.628	1.00	27.81	N
ATOM	216	CA	VAL A1031	12.460	20.050	6.819	1.00	25.50	C
ATOM	217	CB	VAL A1031	11.531	18.806	6.723	1.00	24.73	C
ATOM	218	CG1	VAL A1031	12.355	17.518	6.871	1.00	24.35	C
ATOM	219	CG2	VAL A1031	10.465	18.874	7.798	1.00	23.33	C
ATOM	220	C	VAL A1031	13.621	19.835	5.861	1.00	25.01	C
ATOM	221	O	VAL A1031	14.664	19.307	6.252	1.00	25.89	O
ATOM	222	N	LEU A1032	13.451	20.253	4.617	1.00	24.38	N
ATOM	223	CA	LEU A1032	14.472	20.027	3.604	1.00	25.25	C
ATOM	224	CB	LEU A1032	13.818	19.409	2.370	1.00	25.23	C
ATOM	225	CG	LEU A1032	12.870	18.230	2.597	1.00	23.47	C
ATOM	226	CD1	LEU A1032	12.275	17.806	1.266	1.00	23.54	C
ATOM	227	CD2	LEU A1032	13.624	17.072	3.239	1.00	23.54	C
ATOM	228	C	LEU A1032	15.271	21.243	3.169	1.00	25.67	C
ATOM	229	O	LEU A1032	14.778	22.371	3.184	1.00	25.62	O
ATOM	230	N	THR A1033	16.516	20.997	2.776	1.00	26.32	N
ATOM	231	CA	THR A1033	17.387	22.057	2.289	1.00	27.40	C
ATOM	232	CB	THR A1033	18.862	21.628	2.283	1.00	27.76	C
ATOM	233	OG1	THR A1033	19.015	20.490	1.425	1.00	26.35	O
ATOM	234	CG2	THR A1033	19.331	21.271	3.691	1.00	28.10	C
ATOM	235	C	THR A1033	16.963	22.275	0.844	1.00	27.65	C
ATOM	236	O	THR A1033	16.071	21.588	0.350	1.00	27.78	O
ATOM	237	N	ALA A1034	17.612	23.215	0.166	1.00	27.93	N
ATOM	238	CA	ALA A1034	17.294	23.502	-1.225	1.00	28.06	C
ATOM	239	CB	ALA A1034	18.089	24.717	-1.695	1.00	29.35	C
ATOM	240	C	ALA A1034	17.594	22.296	-2.119	1.00	27.67	C
ATOM	241	O	ALA A1034	16.791	21.940	-2.981	1.00	28.26	O
ATOM	242	N	LEU A1035	18.752	21.675	-1.918	1.00	27.21	N
ATOM	243	CA	LEU A1035	19.131	20.510	-2.711	1.00	29.21	C
ATOM	244	CB	LEU A1035	20.531	20.015	-2.318	1.00	28.90	C
ATOM	245	CG	LEU A1035	21.743	20.903	-2.634	1.00	32.48	C
ATOM	246	CD1	LEU A1035	22.960	20.382	-1.877	1.00	31.19	C
ATOM	247	CD2	LEU A1035	22.017	20.924	-4.137	1.00	32.53	C
ATOM	248	C	LEU A1035	18.111	19.388	-2.514	1.00	27.97	C
ATOM	249	O	LEU A1035	17.674	18.758	-3.475	1.00	28.70	O

ATOM	250	N	GLU A1036	17.731	19.143	-1.267	1.00	27.27	N
ATOM	251	CA	GLU A1036	16.757	18.100	-0.980	1.00	27.49	C
ATOM	252	CB	GLU A1036	16.599	17.938	0.532	1.00	27.41	C
ATOM	253	CG	GLU A1036	17.760	17.195	1.186	1.00	24.80	C
ATOM	254	CD	GLU A1036	17.720	17.252	2.703	1.00	26.22	C
ATOM	255	OE1	GLU A1036	18.225	16.306	3.345	1.00	25.82	O
ATOM	256	OE2	GLU A1036	17.201	18.248	3.256	1.00	26.57	O
ATOM	257	C	GLU A1036	15.413	18.416	-1.634	1.00	27.55	C
ATOM	258	O	GLU A1036	14.740	17.522	-2.138	1.00	25.83	O
ATOM	259	N	MET A1037	15.031	19.691	-1.640	1.00	28.35	N
ATOM	260	CA	MET A1037	13.765	20.099	-2.247	1.00	29.92	C
ATOM	261	CB	MET A1037	13.529	21.599	-2.069	1.00	30.37	C
ATOM	262	CG	MET A1037	12.985	22.000	-0.714	1.00	33.04	C
ATOM	263	SD	MET A1037	11.412	21.198	-0.336	1.00	35.56	S
ATOM	264	CE	MET A1037	10.356	21.852	-1.624	1.00	33.04	C
ATOM	265	C	MET A1037	13.758	19.779	-3.731	1.00	31.19	C
ATOM	266	O	MET A1037	12.711	19.461	-4.306	1.00	30.89	O
ATOM	267	N	GLU A1038	14.928	19.881	-4.352	1.00	31.50	N
ATOM	268	CA	GLU A1038	15.049	19.600	-5.774	1.00	33.14	C
ATOM	269	CB	GLU A1038	16.499	19.777	-6.233	1.00	34.77	C
ATOM	270	CG	GLU A1038	17.005	21.208	-6.093	1.00	39.68	C
ATOM	271	CD	GLU A1038	18.411	21.400	-6.639	1.00	41.20	C
ATOM	272	OE1	GLU A1038	18.981	22.492	-6.434	1.00	44.15	O
ATOM	273	OE2	GLU A1038	18.943	20.467	-7.276	1.00	42.51	O
ATOM	274	C	GLU A1038	14.570	18.186	-6.066	1.00	31.14	C
ATOM	275	O	GLU A1038	13.773	17.974	-6.976	1.00	31.21	O
ATOM	276	N	ARG A1039	15.039	17.215	-5.290	1.00	29.70	N
ATOM	277	CA	ARG A1039	14.606	15.844	-5.521	1.00	28.01	C
ATOM	278	CB	ARG A1039	15.499	14.846	-4.778	1.00	29.96	C
ATOM	279	CG	ARG A1039	15.061	13.406	-5.005	1.00	30.43	C
ATOM	280	CD	ARG A1039	16.213	12.420	-4.969	1.00	30.42	C
ATOM	281	NE	ARG A1039	15.723	11.046	-5.085	1.00	31.83	N
ATOM	282	CZ	ARG A1039	15.203	10.509	-6.188	1.00	32.36	C
ATOM	283	NH1	ARG A1039	15.098	11.214	-7.310	1.00	30.37	N
ATOM	284	NH2	ARG A1039	14.764	9.258	-6.161	1.00	32.43	N
ATOM	285	C	ARG A1039	13.158	15.671	-5.086	1.00	26.14	C
ATOM	286	O	ARG A1039	12.367	15.046	-5.785	1.00	25.25	O
ATOM	287	N	PHE A1040	12.808	16.233	-3.934	1.00	24.86	N
ATOM	288	CA	PHE A1040	11.441	16.132	-3.430	1.00	26.03	C
ATOM	289	CB	PHE A1040	11.273	17.007	-2.178	1.00	25.44	C
ATOM	290	CG	PHE A1040	9.861	17.056	-1.657	1.00	26.41	C
ATOM	291	CD1	PHE A1040	9.298	15.953	-1.027	1.00	25.83	C
ATOM	292	CD2	PHE A1040	9.080	18.194	-1.838	1.00	26.12	C
ATOM	293	CE1	PHE A1040	7.977	15.977	-0.585	1.00	24.52	C
ATOM	294	CE2	PHE A1040	7.752	18.232	-1.399	1.00	26.23	C
ATOM	295	CZ	PHE A1040	7.202	17.119	-0.772	1.00	23.77	C
ATOM	296	C	PHE A1040	10.412	16.548	-4.488	1.00	26.70	C
ATOM	297	O	PHE A1040	9.438	15.837	-4.731	1.00	29.10	O
ATOM	298	N	THR A1041	10.635	17.691	-5.126	1.00	28.25	N
ATOM	299	CA	THR A1041	9.705	18.195	-6.136	1.00	30.17	C
ATOM	300	CB	THR A1041	9.935	19.700	-6.391	1.00	31.11	C
ATOM	301	OG1	THR A1041	11.255	19.911	-6.904	1.00	32.37	O
ATOM	302	CG2	THR A1041	9.781	20.478	-5.099	1.00	29.66	C
ATOM	303	C	THR A1041	9.751	17.456	-7.474	1.00	31.98	C
ATOM	304	O	THR A1041	8.863	17.627	-8.311	1.00	32.84	O
ATOM	305	N	SER A1042	10.781	16.637	-7.673	1.00	31.91	N
ATOM	306	CA	SER A1042	10.933	15.869	-8.909	1.00	32.77	C

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ATOM	307	CB	SER	A1042	12.416	15.609	-9.192	1.00	33.18	C
ATOM	308	OG	SER	A1042	13.106	16.820	-9.448	1.00	38.29	O
ATOM	309	C	SER	A1042	10.215	14.529	-8.831	1.00	32.24	C
ATOM	310	O	SER	A1042	10.071	13.834	-9.840	1.00	32.01	O
ATOM	311	N	LEU	A1043	9.766	14.175	-7.630	1.00	29.92	N
ATOM	312	CA	LEU	A1043	9.101	12.901	-7.394	1.00	28.48	C
ATOM	313	CB	LEU	A1043	9.541	12.332	-6.043	1.00	23.86	C
ATOM	314	CG	LEU	A1043	11.050	12.097	-5.928	1.00	22.34	C
ATOM	315	CD1	LEU	A1043	11.391	11.610	-4.538	1.00	16.25	C
ATOM	316	CD2	LEU	A1043	11.493	11.073	-6.977	1.00	20.12	C
ATOM	317	C	LEU	A1043	7.587	12.967	-7.454	1.00	30.04	C
ATOM	318	O	LEU	A1043	6.995	14.045	-7.415	1.00	29.66	O
ATOM	319	N	LYS	A1044	6.970	11.793	-7.524	1.00	30.79	N
ATOM	320	CA	LYS	A1044	5.525	11.679	-7.633	1.00	32.89	C
ATOM	321	CB	LYS	A1044	5.167	11.102	-9.008	1.00	36.71	C
ATOM	322	CG	LYS	A1044	5.598	11.946	-10.199	1.00	40.80	C
ATOM	323	CD	LYS	A1044	4.583	13.041	-10.500	1.00	45.23	C
ATOM	324	CE	LYS	A1044	4.793	13.615	-11.897	1.00	47.01	C
ATOM	325	NZ	LYS	A1044	3.591	14.354	-12.387	1.00	48.79	N
ATOM	326	C	LYS	A1044	4.883	10.801	-6.564	1.00	31.67	C
ATOM	327	O	LYS	A1044	5.512	9.894	-6.017	1.00	31.18	O
ATOM	328	N	GLY	A1045	3.611	11.080	-6.299	1.00	30.41	N
ATOM	329	CA	GLY	A1045	2.834	10.321	-5.337	1.00	31.09	C
ATOM	330	C	GLY	A1045	3.518	9.841	-4.074	1.00	31.50	C
ATOM	331	O	GLY	A1045	4.098	10.631	-3.329	1.00	32.31	O
ATOM	332	N	ARG	A1046	3.435	8.534	-3.841	1.00	31.79	N
ATOM	333	CA	ARG	A1046	4.009	7.904	-2.659	1.00	34.20	C
ATOM	334	CB	ARG	A1046	3.791	6.386	-2.717	1.00	37.24	C
ATOM	335	CG	ARG	A1046	2.420	5.971	-3.239	1.00	43.96	C
ATOM	336	CD	ARG	A1046	2.301	4.457	-3.386	1.00	48.00	C
ATOM	337	NE	ARG	A1046	1.885	3.810	-2.144	1.00	52.29	N
ATOM	338	CZ	ARG	A1046	1.793	2.493	-1.980	1.00	53.80	C
ATOM	339	NH1	ARG	A1046	1.399	1.995	-0.815	1.00	54.77	N
ATOM	340	NH2	ARG	A1046	2.106	1.673	-2.975	1.00	56.31	N
ATOM	341	C	ARG	A1046	5.499	8.194	-2.516	1.00	32.21	C
ATOM	342	O	ARG	A1046	5.972	8.529	-1.433	1.00	32.82	O
ATOM	343	N	ARG	A1047	6.234	8.060	-3.614	1.00	31.05	N
ATOM	344	CA	ARG	A1047	7.670	8.292	-3.605	1.00	30.41	C
ATOM	345	CB	ARG	A1047	8.235	8.126	-5.015	1.00	32.83	C
ATOM	346	CG	ARG	A1047	9.252	7.013	-5.123	1.00	37.44	C
ATOM	347	CD	ARG	A1047	8.909	6.055	-6.246	1.00	40.57	C
ATOM	348	NE	ARG	A1047	9.734	4.854	-6.183	1.00	45.77	N
ATOM	349	CZ	ARG	A1047	9.635	3.835	-7.028	1.00	47.39	C
ATOM	350	NH1	ARG	A1047	10.428	2.780	-6.896	1.00	49.29	N
ATOM	351	NH2	ARG	A1047	8.743	3.873	-8.008	1.00	48.96	N
ATOM	352	C	ARG	A1047	8.040	9.668	-3.062	1.00	28.90	C
ATOM	353	O	ARG	A1047	9.006	9.808	-2.307	1.00	27.20	O
ATOM	354	N	GLN	A1048	7.268	10.680	-3.444	1.00	26.75	N
ATOM	355	CA	GLN	A1048	7.522	12.042	-2.993	1.00	25.72	C
ATOM	356	CB	GLN	A1048	6.552	13.014	-3.679	1.00	26.20	C
ATOM	357	CG	GLN	A1048	6.972	14.472	-3.555	1.00	26.13	C
ATOM	358	CD	GLN	A1048	6.169	15.400	-4.449	1.00	25.31	C
ATOM	359	OE1	GLN	A1048	6.618	16.495	-4.773	1.00	27.04	O
ATOM	360	NE2	GLN	A1048	4.977	14.970	-4.843	1.00	24.57	N
ATOM	361	C	GLN	A1048	7.390	12.162	-1.475	1.00	23.82	C
ATOM	362	O	GLN	A1048	8.225	12.783	-0.819	1.00	23.93	O
ATOM	363	N	ILE	A1049	6.340	11.568	-0.919	1.00	23.76	N

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ATOM	364	CA	ILE	A1049	6.126	11.615	0.523	1.00	23.77	C
ATOM	365	CB	ILE	A1049	4.733	11.084	0.900	1.00	25.38	C
ATOM	366	CG2	ILE	A1049	4.598	11.001	2.401	1.00	25.87	C
ATOM	367	CG1	ILE	A1049	3.657	11.999	0.315	1.00	26.78	C
ATOM	368	CD1	ILE	A1049	3.787	13.453	0.751	1.00	30.33	C
ATOM	369	C	ILE	A1049	7.181	10.776	1.228	1.00	22.10	C
ATOM	370	O	ILE	A1049	7.673	11.150	2.283	1.00	21.61	O
ATOM	371	N	GLU	A1050	7.525	9.642	0.631	1.00	22.60	N
ATOM	372	CA	GLU	A1050	8.532	8.755	1.200	1.00	23.30	C
ATOM	373	CB	GLU	A1050	8.667	7.478	0.363	1.00	23.16	C
ATOM	374	CG	GLU	A1050	9.889	6.659	0.739	1.00	28.58	C
ATOM	375	CD	GLU	A1050	9.978	6.445	2.234	1.00	29.28	C
ATOM	376	OE1	GLU	A1050	11.108	6.330	2.760	1.00	30.35	O
ATOM	377	OE2	GLU	A1050	8.909	6.394	2.882	1.00	30.91	O
ATOM	378	C	GLU	A1050	9.885	9.454	1.279	1.00	22.26	C
ATOM	379	O	GLU	A1050	10.627	9.288	2.253	1.00	23.12	O
ATOM	380	N	TYR	A1051	10.209	10.245	0.262	1.00	22.07	N
ATOM	381	CA	TYR	A1051	11.478	10.948	0.262	1.00	21.63	C
ATOM	382	CB	TYR	A1051	11.686	11.704	-1.054	1.00	20.34	C
ATOM	383	CG	TYR	A1051	12.992	12.472	-1.082	1.00	20.50	C
ATOM	384	CD1	TYR	A1051	13.055	13.801	-0.659	1.00	20.43	C
ATOM	385	CE1	TYR	A1051	14.269	14.490	-0.621	1.00	20.01	C
ATOM	386	CD2	TYR	A1051	14.179	11.849	-1.475	1.00	20.86	C
ATOM	387	CE2	TYR	A1051	15.400	12.531	-1.441	1.00	21.25	C
ATOM	388	CZ	TYR	A1051	15.432	13.852	-1.010	1.00	19.89	C
ATOM	389	OH	TYR	A1051	16.630	14.525	-0.959	1.00	20.04	O
ATOM	390	C	TYR	A1051	11.557	11.920	1.434	1.00	21.88	C
ATOM	391	O	TYR	A1051	12.557	11.963	2.152	1.00	20.59	O
ATOM	392	N	LEU	A1052	10.499	12.702	1.621	1.00	21.63	N
ATOM	393	CA	LEU	A1052	10.452	13.671	2.706	1.00	21.68	C
ATOM	394	CB	LEU	A1052	9.179	14.513	2.590	1.00	20.47	C
ATOM	395	CG	LEU	A1052	8.808	15.418	3.765	1.00	22.03	C
ATOM	396	CD1	LEU	A1052	9.962	16.348	4.120	1.00	21.80	C
ATOM	397	CD2	LEU	A1052	7.566	16.209	3.381	1.00	20.67	C
ATOM	398	C	LEU	A1052	10.504	12.964	4.055	1.00	20.98	C
ATOM	399	O	LEU	A1052	11.314	13.306	4.919	1.00	21.63	O
ATOM	400	N	ALA	A1053	9.639	11.971	4.223	1.00	19.65	N
ATOM	401	CA	ALA	A1053	9.578	11.190	5.457	1.00	18.20	C
ATOM	402	CB	ALA	A1053	8.567	10.054	5.299	1.00	18.13	C
ATOM	403	C	ALA	A1053	10.952	10.614	5.818	1.00	17.32	C
ATOM	404	O	ALA	A1053	11.356	10.642	6.982	1.00	15.65	O
ATOM	405	N	GLY	A1054	11.660	10.092	4.816	1.00	16.84	N
ATOM	406	CA	GLY	A1054	12.978	9.516	5.049	1.00	16.81	C
ATOM	407	C	GLY	A1054	13.981	10.540	5.542	1.00	16.80	C
ATOM	408	O	GLY	A1054	14.788	10.270	6.439	1.00	16.69	O
ATOM	409	N	ARG	A1055	13.946	11.728	4.952	1.00	18.02	N
ATOM	410	CA	ARG	A1055	14.866	12.772	5.364	1.00	18.20	C
ATOM	411	CB	ARG	A1055	14.811	13.928	4.371	1.00	19.98	C
ATOM	412	CG	ARG	A1055	15.908	13.873	3.303	1.00	19.89	C
ATOM	413	CD	ARG	A1055	15.963	12.534	2.565	1.00	21.10	C
ATOM	414	NE	ARG	A1055	17.109	12.487	1.652	1.00	21.61	N
ATOM	415	CZ	ARG	A1055	17.449	11.426	0.925	1.00	21.69	C
ATOM	416	NH1	ARG	A1055	16.730	10.311	0.999	1.00	20.97	N
ATOM	417	NH2	ARG	A1055	18.508	11.481	0.122	1.00	17.88	N
ATOM	418	C	ARG	A1055	14.534	13.243	6.781	1.00	18.74	C
ATOM	419	O	ARG	A1055	15.433	13.506	7.585	1.00	16.13	O
ATOM	420	N	TRP	A1056	13.243	13.324	7.086	1.00	17.18	N

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ATOM	421	CA	TRP	A1056	12.793	13.732	8.412	1.00	19.43	C
ATOM	422	CB	TRP	A1056	11.267	13.703	8.468	1.00	21.99	C
ATOM	423	CG	TRP	A1056	10.694	14.264	9.713	1.00	26.53	C
ATOM	424	CD2	TRP	A1056	10.311	13.533	10.877	1.00	28.20	C
ATOM	425	CE2	TRP	A1056	9.816	14.468	11.813	1.00	28.53	C
ATOM	426	CE3	TRP	A1056	10.333	12.177	11.222	1.00	29.04	C
ATOM	427	CD1	TRP	A1056	10.431	15.581	9.978	1.00	26.38	C
ATOM	428	NE1	TRP	A1056	9.905	15.708	11.237	1.00	29.97	N
ATOM	429	CZ2	TRP	A1056	9.347	14.090	13.073	1.00	30.15	C
ATOM	430	CZ3	TRP	A1056	9.868	11.801	12.476	1.00	31.30	C
ATOM	431	CH2	TRP	A1056	9.379	12.755	13.386	1.00	31.45	C
ATOM	432	C	TRP	A1056	13.343	12.710	9.412	1.00	18.72	C
ATOM	433	O	TRP	A1056	13.992	13.063	10.397	1.00	16.51	O
ATOM	434	N	SER	A1057	13.084	11.435	9.137	1.00	17.50	N
ATOM	435	CA	SER	A1057	13.532	10.352	10.011	1.00	19.23	C
ATOM	436	CB	SER	A1057	13.053	9.009	9.448	1.00	21.41	C
ATOM	437	OG	SER	A1057	13.243	7.971	10.388	1.00	25.06	O
ATOM	438	C	SER	A1057	15.053	10.320	10.201	1.00	19.01	C
ATOM	439	O	SER	A1057	15.549	10.120	11.317	1.00	19.71	O
ATOM	440	N	ALA	A1058	15.789	10.511	9.111	1.00	16.54	N
ATOM	441	CA	ALA	A1058	17.243	10.495	9.162	1.00	16.02	C
ATOM	442	CB	ALA	A1058	17.798	10.607	7.757	1.00	15.16	C
ATOM	443	C	ALA	A1058	17.790	11.616	10.035	1.00	15.70	C
ATOM	444	O	ALA	A1058	18.707	11.411	10.836	1.00	16.78	O
ATOM	445	N	LYS	A1059	17.221	12.805	9.884	1.00	16.69	N
ATOM	446	CA	LYS	A1059	17.664	13.957	10.648	1.00	18.17	C
ATOM	447	CB	LYS	A1059	17.079	15.240	10.042	1.00	18.92	C
ATOM	448	CG	LYS	A1059	17.536	15.450	8.588	1.00	19.75	C
ATOM	449	CD	LYS	A1059	17.059	16.773	8.003	1.00	19.99	C
ATOM	450	CE	LYS	A1059	17.531	16.933	6.549	1.00	19.86	C
ATOM	451	NZ	LYS	A1059	17.304	18.322	6.031	1.00	20.25	N
ATOM	452	C	LYS	A1059	17.302	13.818	12.116	1.00	19.11	C
ATOM	453	O	LYS	A1059	18.067	14.222	12.995	1.00	18.56	O
ATOM	454	N	GLU	A1060	16.143	13.225	12.374	1.00	18.52	N
ATOM	455	CA	GLU	A1060	15.679	12.998	13.736	1.00	21.84	C
ATOM	456	CB	GLU	A1060	14.247	12.448	13.704	1.00	26.26	C
ATOM	457	CG	GLU	A1060	13.428	12.722	14.952	1.00	33.87	C
ATOM	458	CD	GLU	A1060	13.083	14.192	15.130	1.00	35.47	C
ATOM	459	OE1	GLU	A1060	12.298	14.733	14.322	1.00	38.74	O
ATOM	460	OE2	GLU	A1060	13.601	14.811	16.082	1.00	39.14	O
ATOM	461	C	GLU	A1060	16.631	11.982	14.390	1.00	21.03	C
ATOM	462	O	GLU	A1060	17.045	12.149	15.544	1.00	18.91	O
ATOM	463	N	ALA	A1061	16.991	10.943	13.635	1.00	18.55	N
ATOM	464	CA	ALA	A1061	17.898	9.910	14.131	1.00	18.39	C
ATOM	465	CB	ALA	A1061	18.017	8.777	13.113	1.00	15.08	C
ATOM	466	C	ALA	A1061	19.283	10.490	14.429	1.00	18.00	C
ATOM	467	O	ALA	A1061	19.905	10.151	15.436	1.00	17.16	O
ATOM	468	N	PHE	A1062	19.768	11.352	13.542	1.00	18.20	N
ATOM	469	CA	PHE	A1062	21.069	11.970	13.741	1.00	20.25	C
ATOM	470	CB	PHE	A1062	21.433	12.855	12.546	1.00	20.89	C
ATOM	471	CG	PHE	A1062	22.721	13.605	12.730	1.00	23.32	C
ATOM	472	CD1	PHE	A1062	22.761	14.776	13.489	1.00	24.72	C
ATOM	473	CD2	PHE	A1062	23.908	13.112	12.194	1.00	23.55	C
ATOM	474	CE1	PHE	A1062	23.973	15.443	13.717	1.00	24.71	C
ATOM	475	CE2	PHE	A1062	25.119	13.766	12.414	1.00	23.92	C
ATOM	476	CZ	PHE	A1062	25.150	14.934	13.179	1.00	25.42	C
ATOM	477	C	PHE	A1062	21.090	12.800	15.026	1.00	21.33	C

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ATOM	478	O	PHE	A1062	22.035	12.726	15.809	1.00	20.18	O
ATOM	479	N	SER	A1063	20.045	13.593	15.244	1.00	22.52	N
ATOM	480	CA	SER	A1063	19.973	14.420	16.445	1.00	24.40	C
ATOM	481	CB	SER	A1063	18.679	15.230	16.447	1.00	25.96	C
ATOM	482	OG	SER	A1063	18.670	16.112	15.338	1.00	30.50	O
ATOM	483	C	SER	A1063	20.060	13.562	17.704	1.00	24.30	C
ATOM	484	O	SER	A1063	20.714	13.938	18.682	1.00	23.77	O
ATOM	485	N	LYS	A1064	19.407	12.406	17.678	1.00	22.33	N
ATOM	486	CA	LYS	A1064	19.451	11.513	18.823	1.00	23.04	C
ATOM	487	CB	LYS	A1064	18.405	10.406	18.684	1.00	23.38	C
ATOM	488	CG	LYS	A1064	16.971	10.881	18.903	1.00	25.10	C
ATOM	489	CD	LYS	A1064	15.986	9.734	18.726	1.00	28.41	C
ATOM	490	CE	LYS	A1064	14.548	10.194	18.924	1.00	32.98	C
ATOM	491	NZ	LYS	A1064	13.566	9.195	18.410	1.00	35.52	N
ATOM	492	C	LYS	A1064	20.845	10.907	18.949	1.00	22.52	C
ATOM	493	O	LYS	A1064	21.285	10.572	20.047	1.00	21.41	O
ATOM	494	N	ALA	A1065	21.539	10.774	17.820	1.00	21.47	N
ATOM	495	CA	ALA	A1065	22.885	10.220	17.826	1.00	22.53	C
ATOM	496	CB	ALA	A1065	23.379	9.980	16.399	1.00	20.33	C
ATOM	497	C	ALA	A1065	23.796	11.207	18.537	1.00	24.41	C
ATOM	498	O	ALA	A1065	24.751	10.811	19.201	1.00	24.00	O
ATOM	499	N	MET	A1066	23.499	12.496	18.390	1.00	28.05	N
ATOM	500	CA	MET	A1066	24.283	13.530	19.049	1.00	32.04	C
ATOM	501	CB	MET	A1066	24.167	14.859	18.309	1.00	34.23	C
ATOM	502	CG	MET	A1066	24.913	14.895	16.997	1.00	40.28	C
ATOM	503	SD	MET	A1066	25.423	16.574	16.602	1.00	48.25	S
ATOM	504	CE	MET	A1066	27.174	16.492	17.024	1.00	46.99	C
ATOM	505	C	MET	A1066	23.826	13.716	20.493	1.00	33.24	C
ATOM	506	O	MET	A1066	24.456	14.443	21.254	1.00	33.60	O
ATOM	507	N	GLY	A1067	22.720	13.069	20.856	1.00	33.56	N
ATOM	508	CA	GLY	A1067	22.217	13.159	22.216	1.00	34.99	C
ATOM	509	C	GLY	A1067	21.311	14.339	22.519	1.00	36.72	C
ATOM	510	O	GLY	A1067	21.237	14.787	23.666	1.00	34.92	O
ATOM	511	N	THR	A1068	20.616	14.845	21.504	1.00	38.07	N
ATOM	512	CA	THR	A1068	19.716	15.975	21.699	1.00	39.81	C
ATOM	513	CB	THR	A1068	20.455	17.316	21.504	1.00	40.69	C
ATOM	514	OG1	THR	A1068	19.535	18.400	21.687	1.00	42.07	O
ATOM	515	CG2	THR	A1068	21.062	17.396	20.114	1.00	40.32	C
ATOM	516	C	THR	A1068	18.520	15.922	20.752	1.00	40.62	C
ATOM	517	O	THR	A1068	18.293	14.915	20.077	1.00	41.29	O
ATOM	518	N	GLY	A1069	17.753	17.007	20.716	1.00	40.61	N
ATOM	519	CA	GLY	A1069	16.586	17.061	19.856	1.00	40.92	C
ATOM	520	C	GLY	A1069	16.835	17.849	18.587	1.00	40.96	C
ATOM	521	O	GLY	A1069	17.705	18.722	18.547	1.00	41.30	O
ATOM	522	N	ILE	A1070	16.065	17.545	17.547	1.00	40.13	N
ATOM	523	CA	ILE	A1070	16.207	18.224	16.266	1.00	40.90	C
ATOM	524	CB	ILE	A1070	15.288	17.591	15.200	1.00	40.70	C
ATOM	525	CG2	ILE	A1070	13.828	17.774	15.593	1.00	40.55	C
ATOM	526	CG1	ILE	A1070	15.557	18.227	13.835	1.00	41.43	C
ATOM	527	CD1	ILE	A1070	16.980	18.055	13.352	1.00	39.85	C
ATOM	528	C	ILE	A1070	15.876	19.712	16.387	1.00	41.49	C
ATOM	529	O	ILE	A1070	16.354	20.533	15.598	1.00	41.31	O
ATOM	530	N	SER	A1071	15.058	20.054	17.379	1.00	41.78	N
ATOM	531	CA	SER	A1071	14.672	21.442	17.594	1.00	42.83	C
ATOM	532	CB	SER	A1071	13.546	21.531	18.633	1.00	43.42	C
ATOM	533	OG	SER	A1071	13.938	20.980	19.877	1.00	44.55	O
ATOM	534	C	SER	A1071	15.856	22.295	18.039	1.00	43.32	C

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ATOM	535	O	SER A1071	15.792	23.523	17.984	1.00	44.46	O
ATOM	536	N	LYS A1072	16.938	21.648	18.472	1.00	42.56	N
ATOM	537	CA	LYS A1072	18.123	22.377	18.911	1.00	41.56	C
ATOM	538	CB	LYS A1072	18.744	21.706	20.141	1.00	41.25	C
ATOM	539	CG	LYS A1072	19.600	20.489	19.844	0.05	41.20	C
ATOM	540	CD	LYS A1072	21.069	20.860	19.724	0.05	41.09	C
ATOM	541	CE	LYS A1072	21.602	21.414	21.037	0.05	41.02	C
ATOM	542	NZ	LYS A1072	21.470	20.437	22.152	0.05	40.94	N
ATOM	543	C	LYS A1072	19.139	22.462	17.777	1.00	41.40	C
ATOM	544	O	LYS A1072	19.840	23.462	17.643	1.00	41.76	O
ATOM	545	N	LEU A1073	19.220	21.413	16.960	1.00	40.37	N
ATOM	546	CA	LEU A1073	20.142	21.411	15.829	1.00	38.42	C
ATOM	547	CB	LEU A1073	20.439	19.985	15.339	1.00	39.84	C
ATOM	548	CG	LEU A1073	21.489	19.100	16.015	1.00	40.56	C
ATOM	549	CD1	LEU A1073	22.585	19.956	16.635	1.00	41.19	C
ATOM	550	CD2	LEU A1073	20.820	18.243	17.064	1.00	42.23	C
ATOM	551	C	LEU A1073	19.556	22.198	14.664	1.00	36.59	C
ATOM	552	O	LEU A1073	20.205	23.091	14.123	1.00	36.83	O
ATOM	553	N	GLY A1074	18.326	21.849	14.285	1.00	34.67	N
ATOM	554	CA	GLY A1074	17.653	22.500	13.172	1.00	31.12	C
ATOM	555	C	GLY A1074	17.746	21.631	11.927	1.00	29.81	C
ATOM	556	O	GLY A1074	18.830	21.176	11.576	1.00	29.20	O
ATOM	557	N	PHE A1075	16.619	21.396	11.260	1.00	29.29	N
ATOM	558	CA	PHE A1075	16.595	20.565	10.051	1.00	29.15	C
ATOM	559	CB	PHE A1075	15.163	20.442	9.502	1.00	28.80	C
ATOM	560	CG	PHE A1075	14.244	19.610	10.353	1.00	29.16	C
ATOM	561	CD1	PHE A1075	13.306	20.212	11.183	1.00	29.51	C
ATOM	562	CD2	PHE A1075	14.309	18.221	10.315	1.00	28.39	C
ATOM	563	CE1	PHE A1075	12.440	19.443	11.964	1.00	28.84	C
ATOM	564	CE2	PHE A1075	13.451	17.445	11.089	1.00	30.94	C
ATOM	565	CZ	PHE A1075	12.514	18.059	11.916	1.00	29.27	C
ATOM	566	C	PHE A1075	17.500	21.072	8.922	1.00	29.25	C
ATOM	567	O	PHE A1075	18.096	20.275	8.193	1.00	27.78	O
ATOM	568	N	GLN A1076	17.589	22.393	8.772	1.00	29.64	N
ATOM	569	CA	GLN A1076	18.397	23.008	7.717	1.00	29.73	C
ATOM	570	CB	GLN A1076	18.046	24.497	7.593	1.00	31.55	C
ATOM	571	CG	GLN A1076	16.585	24.746	7.253	1.00	31.77	C
ATOM	572	CD	GLN A1076	16.202	24.181	5.895	1.00	32.15	C
ATOM	573	OE1	GLN A1076	15.044	23.849	5.652	1.00	34.09	O
ATOM	574	NE2	GLN A1076	17.174	24.084	5.002	1.00	32.35	N
ATOM	575	C	GLN A1076	19.888	22.845	7.975	1.00	31.01	C
ATOM	576	O	GLN A1076	20.724	23.105	7.099	1.00	30.59	O
ATOM	577	N	ASP A1077	20.211	22.401	9.183	1.00	30.30	N
ATOM	578	CA	ASP A1077	21.592	22.182	9.588	1.00	30.99	C
ATOM	579	CB	ASP A1077	21.684	22.266	11.111	1.00	34.42	C
ATOM	580	CG	ASP A1077	22.894	23.034	11.578	1.00	38.94	C
ATOM	581	OD1	ASP A1077	24.025	22.549	11.358	1.00	40.63	O
ATOM	582	OD2	ASP A1077	22.710	24.127	12.162	1.00	41.18	O
ATOM	583	C	ASP A1077	22.066	20.803	9.114	1.00	28.98	C
ATOM	584	O	ASP A1077	23.247	20.470	9.198	1.00	27.03	O
ATOM	585	N	LEU A1078	21.134	19.998	8.622	1.00	26.47	N
ATOM	586	CA	LEU A1078	21.472	18.665	8.155	1.00	25.11	C
ATOM	587	CB	LEU A1078	20.782	17.614	9.029	1.00	25.83	C
ATOM	588	CG	LEU A1078	21.066	17.667	10.529	1.00	25.61	C
ATOM	589	CD1	LEU A1078	20.075	16.787	11.291	1.00	26.16	C
ATOM	590	CD2	LEU A1078	22.494	17.227	10.775	1.00	26.52	C
ATOM	591	C	LEU A1078	21.015	18.495	6.723	1.00	24.62	C

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ATOM	592	O	LEU A1078	20.052	19.125	6.296	1.00	25.13	O
ATOM	593	N	GLU A1079	21.710	17.648	5.975	1.00	23.38	N
ATOM	594	CA	GLU A1079	21.312	17.388	4.603	1.00	22.76	C
ATOM	595	CB	GLU A1079	22.008	18.338	3.639	1.00	24.57	C
ATOM	596	CG	GLU A1079	21.425	18.299	2.241	1.00	25.55	C
ATOM	597	CD	GLU A1079	22.219	19.146	1.274	1.00	28.95	C
ATOM	598	OE1	GLU A1079	23.415	18.844	1.074	1.00	28.46	O
ATOM	599	OE2	GLU A1079	21.652	20.114	0.722	1.00	31.06	O
ATOM	600	C	GLU A1079	21.639	15.958	4.220	1.00	21.67	C
ATOM	601	O	GLU A1079	22.747	15.476	4.458	1.00	21.79	O
ATOM	602	N	VAL A1080	20.667	15.283	3.626	1.00	18.92	N
ATOM	603	CA	VAL A1080	20.861	13.904	3.208	1.00	19.27	C
ATOM	604	CB	VAL A1080	19.836	12.967	3.881	1.00	18.84	C
ATOM	605	CG1	VAL A1080	20.181	11.504	3.578	1.00	18.64	C
ATOM	606	CG2	VAL A1080	19.801	13.230	5.368	1.00	18.66	C
ATOM	607	C	VAL A1080	20.690	13.798	1.696	1.00	19.85	C
ATOM	608	O	VAL A1080	19.596	14.003	1.169	1.00	19.06	O
ATOM	609	N	LEU A1081	21.780	13.497	1.003	1.00	19.76	N
ATOM	610	CA	LEU A1081	21.742	13.332	-0.442	1.00	20.15	C
ATOM	611	CB	LEU A1081	22.808	14.210	-1.111	1.00	19.63	C
ATOM	612	CG	LEU A1081	22.640	15.717	-0.878	1.00	19.82	C
ATOM	613	CD1	LEU A1081	23.817	16.488	-1.475	1.00	19.43	C
ATOM	614	CD2	LEU A1081	21.326	16.171	-1.485	1.00	18.80	C
ATOM	615	C	LEU A1081	22.037	11.861	-0.696	1.00	20.78	C
ATOM	616	O	LEU A1081	22.097	11.067	0.242	1.00	19.52	O
ATOM	617	N	ASN A1082	22.224	11.495	-1.957	1.00	21.64	N
ATOM	618	CA	ASN A1082	22.521	10.110	-2.301	1.00	22.51	C
ATOM	619	CB	ASN A1082	21.430	9.574	-3.230	1.00	21.83	C
ATOM	620	CG	ASN A1082	20.134	9.281	-2.485	1.00	24.97	C
ATOM	621	OD1	ASN A1082	19.930	8.174	-1.973	1.00	26.72	O
ATOM	622	ND2	ASN A1082	19.264	10.275	-2.402	1.00	23.64	N
ATOM	623	C	ASN A1082	23.897	10.029	-2.954	1.00	22.59	C
ATOM	624	O	ASN A1082	24.196	10.786	-3.876	1.00	23.10	O
ATOM	625	N	ASN A1083	24.738	9.118	-2.472	1.00	21.81	N
ATOM	626	CA	ASN A1083	26.079	8.998	-3.021	1.00	24.05	C
ATOM	627	CB	ASN A1083	27.011	8.298	-2.018	1.00	21.32	C
ATOM	628	CG	ASN A1083	26.634	6.849	-1.748	1.00	23.86	C
ATOM	629	OD1	ASN A1083	27.083	6.269	-0.752	1.00	23.67	O
ATOM	630	ND2	ASN A1083	25.835	6.249	-2.631	1.00	20.56	N
ATOM	631	C	ASN A1083	26.112	8.315	-4.385	1.00	26.50	C
ATOM	632	O	ASN A1083	25.065	7.986	-4.951	1.00	25.00	O
ATOM	633	N	GLU A1084	27.313	8.118	-4.921	1.00	28.34	N
ATOM	634	CA	GLU A1084	27.447	7.514	-6.237	1.00	32.10	C
ATOM	635	CB	GLU A1084	28.907	7.561	-6.700	1.00	32.77	C
ATOM	636	CG	GLU A1084	29.885	6.749	-5.877	1.00	35.30	C
ATOM	637	CD	GLU A1084	31.327	7.041	-6.263	1.00	38.54	C
ATOM	638	OE1	GLU A1084	31.628	7.058	-7.478	1.00	39.35	O
ATOM	639	OE2	GLU A1084	32.160	7.252	-5.356	1.00	40.56	O
ATOM	640	C	GLU A1084	26.906	6.092	-6.307	1.00	32.37	C
ATOM	641	O	GLU A1084	26.582	5.610	-7.386	1.00	34.17	O
ATOM	642	N	ARG A1085	26.811	5.426	-5.158	1.00	31.86	N
ATOM	643	CA	ARG A1085	26.278	4.069	-5.111	1.00	29.86	C
ATOM	644	CB	ARG A1085	26.967	3.259	-4.009	1.00	30.40	C
ATOM	645	CG	ARG A1085	28.442	2.992	-4.269	0.05	30.17	C
ATOM	646	CD	ARG A1085	28.668	2.173	-5.540	0.05	30.07	C
ATOM	647	NE	ARG A1085	28.539	0.730	-5.333	0.05	30.12	N
ATOM	648	CZ	ARG A1085	27.396	0.089	-5.107	0.05	30.07	C

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ATOM	649	NH1	ARG	A1085	26.249	0.751	-5.054	0.05	30.16	N
ATOM	650	NH2	ARG	A1085	27.401	-1.226	-4.938	0.05	30.04	N
ATOM	651	C	ARG	A1085	24.768	4.117	-4.860	1.00	28.84	C
ATOM	652	O	ARG	A1085	24.121	3.084	-4.683	1.00	28.73	O
ATOM	653	N	GLY	A1086	24.222	5.329	-4.842	1.00	26.09	N
ATOM	654	CA	GLY	A1086	22.797	5.514	-4.635	1.00	24.49	C
ATOM	655	C	GLY	A1086	22.286	5.493	-3.202	1.00	23.98	C
ATOM	656	O	GLY	A1086	21.090	5.649	-2.975	1.00	25.43	O
ATOM	657	N	ALA	A1087	23.172	5.306	-2.233	1.00	21.90	N
ATOM	658	CA	ALA	A1087	22.755	5.259	-0.836	1.00	21.27	C
ATOM	659	CB	ALA	A1087	23.704	4.379	-0.042	1.00	21.23	C
ATOM	660	C	ALA	A1087	22.689	6.653	-0.205	1.00	21.63	C
ATOM	661	O	ALA	A1087	23.508	7.529	-0.499	1.00	19.21	O
ATOM	662	N	PRO	A1088	21.700	6.872	0.668	1.00	20.00	N
ATOM	663	CD	PRO	A1088	20.666	5.919	1.105	1.00	20.94	C
ATOM	664	CA	PRO	A1088	21.544	8.164	1.335	1.00	20.18	C
ATOM	665	CB	PRO	A1088	20.212	8.013	2.064	1.00	20.85	C
ATOM	666	CG	PRO	A1088	20.183	6.545	2.390	1.00	22.84	C
ATOM	667	C	PRO	A1088	22.714	8.380	2.281	1.00	19.50	C
ATOM	668	O	PRO	A1088	23.220	7.431	2.887	1.00	17.61	O
ATOM	669	N	TYR	A1089	23.164	9.621	2.395	1.00	18.16	N
ATOM	670	CA	TYR	A1089	24.281	9.913	3.279	1.00	19.12	C
ATOM	671	CB	TYR	A1089	25.611	9.642	2.557	1.00	20.66	C
ATOM	672	CG	TYR	A1089	25.977	10.698	1.534	1.00	23.33	C
ATOM	673	CD1	TYR	A1089	26.869	11.724	1.853	1.00	22.08	C
ATOM	674	CE1	TYR	A1089	27.211	12.699	0.916	1.00	22.82	C
ATOM	675	CD2	TYR	A1089	25.426	10.673	0.249	1.00	22.30	C
ATOM	676	CE2	TYR	A1089	25.752	11.642	-0.692	1.00	23.44	C
ATOM	677	CZ	TYR	A1089	26.649	12.655	-0.354	1.00	25.15	C
ATOM	678	OH	TYR	A1089	26.987	13.614	-1.288	1.00	24.63	O
ATOM	679	C	TYR	A1089	24.205	11.363	3.699	1.00	17.64	C
ATOM	680	O	TYR	A1089	23.578	12.178	3.023	1.00	16.44	O
ATOM	681	N	PHE	A1090	24.824	11.691	4.825	1.00	17.81	N
ATOM	682	CA	PHE	A1090	24.801	13.070	5.277	1.00	17.81	C
ATOM	683	CB	PHE	A1090	25.019	13.159	6.791	1.00	17.48	C
ATOM	684	CG	PHE	A1090	23.777	12.873	7.595	1.00	17.01	C
ATOM	685	CD1	PHE	A1090	23.434	11.568	7.938	1.00	17.02	C
ATOM	686	CD2	PHE	A1090	22.919	13.910	7.962	1.00	16.23	C
ATOM	687	CE1	PHE	A1090	22.247	11.293	8.632	1.00	17.95	C
ATOM	688	CE2	PHE	A1090	21.732	13.647	8.656	1.00	17.65	C
ATOM	689	CZ	PHE	A1090	21.397	12.333	8.989	1.00	16.73	C
ATOM	690	C	PHE	A1090	25.852	13.892	4.547	1.00	20.29	C
ATOM	691	O	PHE	A1090	27.054	13.713	4.749	1.00	19.58	O
ATOM	692	N	SER	A1091	25.384	14.767	3.665	1.00	21.20	N
ATOM	693	CA	SER	A1091	26.266	15.646	2.921	1.00	23.08	C
ATOM	694	CB	SER	A1091	25.592	16.086	1.618	1.00	24.12	C
ATOM	695	OG	SER	A1091	24.281	16.567	1.852	1.00	24.36	O
ATOM	696	C	SER	A1091	26.580	16.856	3.806	1.00	24.80	C
ATOM	697	O	SER	A1091	27.613	17.507	3.642	1.00	25.24	O
ATOM	698	N	GLN	A1092	25.685	17.141	4.752	1.00	24.80	N
ATOM	699	CA	GLN	A1092	25.853	18.254	5.688	1.00	24.09	C
ATOM	700	CB	GLN	A1092	24.970	19.448	5.296	1.00	26.54	C
ATOM	701	CG	GLN	A1092	25.294	20.132	3.971	1.00	30.86	C
ATOM	702	CD	GLN	A1092	26.711	20.678	3.907	1.00	34.83	C
ATOM	703	OE1	GLN	A1092	27.257	21.147	4.910	1.00	37.27	O
ATOM	704	NE2	GLN	A1092	27.308	20.637	2.717	1.00	34.99	N
ATOM	705	C	GLN	A1092	25.453	17.803	7.096	1.00	23.97	C

ATOM	706	O	GLN	A1092	24.343	17.295	7.300	1.00	22.36	O
ATOM	707	N	ALA	A1093	26.356	17.989	8.057	1.00	20.55	N
ATOM	708	CA	ALA	A1093	26.097	17.621	9.447	1.00	21.00	C
ATOM	709	CB	ALA	A1093	25.948	16.101	9.580	1.00	17.57	C
ATOM	710	C	ALA	A1093	27.235	18.114	10.336	1.00	22.11	C
ATOM	711	O	ALA	A1093	28.392	18.120	9.920	1.00	23.23	O
ATOM	712	N	PRO	A1094	26.918	18.536	11.573	1.00	23.31	N
ATOM	713	CD	PRO	A1094	25.550	18.680	12.111	1.00	23.07	C
ATOM	714	CA	PRO	A1094	27.907	19.034	12.533	1.00	24.58	C
ATOM	715	CB	PRO	A1094	27.053	19.820	13.521	1.00	24.45	C
ATOM	716	CG	PRO	A1094	25.798	18.997	13.575	1.00	24.77	C
ATOM	717	C	PRO	A1094	28.687	17.909	13.219	1.00	26.12	C
ATOM	718	O	PRO	A1094	28.675	17.791	14.445	1.00	27.56	O
ATOM	719	N	PHE	A1095	29.353	17.079	12.423	1.00	26.05	N
ATOM	720	CA	PHE	A1095	30.139	15.975	12.957	1.00	26.02	C
ATOM	721	CB	PHE	A1095	29.279	14.710	13.090	1.00	27.36	C
ATOM	722	CG	PHE	A1095	30.016	13.544	13.674	1.00	26.42	C
ATOM	723	CD1	PHE	A1095	30.208	12.385	12.931	1.00	26.59	C
ATOM	724	CD2	PHE	A1095	30.571	13.625	14.950	1.00	27.10	C
ATOM	725	CE1	PHE	A1095	30.946	11.324	13.446	1.00	26.29	C
ATOM	726	CE2	PHE	A1095	31.312	12.574	15.475	1.00	25.68	C
ATOM	727	CZ	PHE	A1095	31.502	11.417	14.720	1.00	27.52	C
ATOM	728	C	PHE	A1095	31.305	15.727	12.012	1.00	26.40	C
ATOM	729	O	PHE	A1095	31.122	15.681	10.792	1.00	25.80	O
ATOM	730	N	SER	A1096	32.498	15.560	12.577	1.00	26.14	N
ATOM	731	CA	SER	A1096	33.705	15.357	11.781	1.00	29.05	C
ATOM	732	CB	SER	A1096	34.909	15.969	12.500	1.00	30.71	C
ATOM	733	OG	SER	A1096	34.768	17.373	12.603	1.00	37.13	O
ATOM	734	C	SER	A1096	34.039	13.919	11.413	1.00	28.85	C
ATOM	735	O	SER	A1096	34.702	13.678	10.407	1.00	29.54	O
ATOM	736	N	GLY	A1097	33.595	12.968	12.229	1.00	28.58	N
ATOM	737	CA	GLY	A1097	33.888	11.573	11.957	1.00	27.16	C
ATOM	738	C	GLY	A1097	32.991	10.948	10.907	1.00	26.54	C
ATOM	739	O	GLY	A1097	32.406	11.648	10.077	1.00	27.09	O
ATOM	740	N	LYS	A1098	32.888	9.624	10.931	1.00	24.94	N
ATOM	741	CA	LYS	A1098	32.045	8.930	9.973	1.00	25.69	C
ATOM	742	CB	LYS	A1098	32.587	7.535	9.644	1.00	29.36	C
ATOM	743	CG	LYS	A1098	33.687	7.015	10.547	1.00	33.98	C
ATOM	744	CD	LYS	A1098	35.051	7.532	10.120	1.00	37.43	C
ATOM	745	CE	LYS	A1098	36.164	6.583	10.568	1.00	39.11	C
ATOM	746	NZ	LYS	A1098	36.119	6.320	12.033	1.00	41.00	N
ATOM	747	C	LYS	A1098	30.625	8.796	10.492	1.00	24.62	C
ATOM	748	O	LYS	A1098	30.393	8.494	11.668	1.00	22.63	O
ATOM	749	N	ILE	A1099	29.677	9.033	9.600	1.00	22.17	N
ATOM	750	CA	ILE	A1099	28.273	8.932	9.941	1.00	21.57	C
ATOM	751	CB	ILE	A1099	27.514	10.193	9.523	1.00	19.45	C
ATOM	752	CG2	ILE	A1099	26.039	10.056	9.905	1.00	18.01	C
ATOM	753	CG1	ILE	A1099	28.155	11.419	10.177	1.00	20.05	C
ATOM	754	CD1	ILE	A1099	27.677	12.738	9.613	1.00	19.45	C
ATOM	755	C	ILE	A1099	27.695	7.748	9.184	1.00	21.84	C
ATOM	756	O	ILE	A1099	27.597	7.775	7.958	1.00	24.63	O
ATOM	757	N	TRP	A1100	27.334	6.699	9.907	1.00	20.85	N
ATOM	758	CA	TRP	A1100	26.760	5.532	9.270	1.00	19.86	C
ATOM	759	CB	TRP	A1100	27.172	4.260	10.009	1.00	18.86	C
ATOM	760	CG	TRP	A1100	28.652	4.007	9.945	1.00	19.33	C
ATOM	761	CD2	TRP	A1100	29.370	3.395	8.864	1.00	20.59	C
ATOM	762	CE2	TRP	A1100	30.743	3.416	9.209	1.00	20.05	C

ATOM	763	CE3	TRP	A1100	28.987	2.835	7.634	1.00	19.76	C
ATOM	764	CD1	TRP	A1100	29.590	4.362	10.873	1.00	19.35	C
ATOM	765	NE1	TRP	A1100	30.846	4.010	10.439	1.00	18.87	N
ATOM	766	CZ2	TRP	A1100	31.739	2.895	8.369	1.00	19.48	C
ATOM	767	CZ3	TRP	A1100	29.978	2.317	6.796	1.00	22.42	C
ATOM	768	CH2	TRP	A1100	31.343	2.354	7.172	1.00	20.56	C
ATOM	769	C	TRP	A1100	25.251	5.718	9.294	1.00	20.31	C
ATOM	770	O	TRP	A1100	24.633	5.795	10.357	1.00	20.18	O
ATOM	771	N	LEU	A1101	24.663	5.829	8.113	1.00	18.06	N
ATOM	772	CA	LEU	A1101	23.229	6.023	8.019	1.00	17.46	C
ATOM	773	CB	LEU	A1101	22.915	7.399	7.409	1.00	15.91	C
ATOM	774	CG	LEU	A1101	21.475	7.611	6.919	1.00	15.54	C
ATOM	775	CD1	LEU	A1101	20.510	7.621	8.101	1.00	14.01	C
ATOM	776	CD2	LEU	A1101	21.380	8.931	6.150	1.00	12.69	C
ATOM	777	C	LEU	A1101	22.561	4.945	7.190	1.00	17.42	C
ATOM	778	O	LEU	A1101	23.124	4.436	6.218	1.00	15.25	O
ATOM	779	N	SER	A1102	21.353	4.582	7.600	1.00	17.54	N
ATOM	780	CA	SER	A1102	20.581	3.607	6.865	1.00	15.75	C
ATOM	781	CB	SER	A1102	20.832	2.189	7.364	1.00	16.41	C
ATOM	782	OG	SER	A1102	20.242	1.258	6.469	1.00	14.51	O
ATOM	783	C	SER	A1102	19.129	3.980	7.063	1.00	17.48	C
ATOM	784	O	SER	A1102	18.711	4.322	8.173	1.00	16.20	O
ATOM	785	N	ILE	A1103	18.376	3.940	5.968	1.00	17.02	N
ATOM	786	CA	ILE	A1103	16.963	4.274	5.979	1.00	17.85	C
ATOM	787	CB	ILE	A1103	16.691	5.576	5.194	1.00	19.00	C
ATOM	788	CG2	ILE	A1103	15.207	5.948	5.278	1.00	18.57	C
ATOM	789	CG1	ILE	A1103	17.554	6.706	5.754	1.00	18.22	C
ATOM	790	CD1	ILE	A1103	17.414	8.014	4.999	1.00	20.97	C
ATOM	791	C	ILE	A1103	16.239	3.130	5.291	1.00	17.46	C
ATOM	792	O	ILE	A1103	16.769	2.510	4.368	1.00	17.27	O
ATOM	793	N	SER	A1104	15.033	2.845	5.751	1.00	14.92	N
ATOM	794	CA	SER	A1104	14.240	1.772	5.175	1.00	17.06	C
ATOM	795	CB	SER	A1104	14.566	0.447	5.876	1.00	15.94	C
ATOM	796	OG	SER	A1104	13.790	-0.613	5.342	1.00	15.77	O
ATOM	797	C	SER	A1104	12.779	2.155	5.384	1.00	17.20	C
ATOM	798	O	SER	A1104	12.453	2.859	6.333	1.00	15.90	O
ATOM	799	N	HIS	A1105	11.902	1.699	4.502	1.00	18.52	N
ATOM	800	CA	HIS	A1105	10.494	2.048	4.619	1.00	20.22	C
ATOM	801	CB	HIS	A1105	10.199	3.316	3.813	1.00	23.50	C
ATOM	802	CG	HIS	A1105	10.358	3.127	2.334	1.00	25.77	C
ATOM	803	CD2	HIS	A1105	9.487	2.690	1.392	1.00	26.90	C
ATOM	804	ND1	HIS	A1105	11.563	3.301	1.687	1.00	26.39	N
ATOM	805	CE1	HIS	A1105	11.428	2.977	0.412	1.00	27.48	C
ATOM	806	NE2	HIS	A1105	10.177	2.601	0.208	1.00	27.67	N
ATOM	807	C	HIS	A1105	9.597	0.953	4.079	1.00	21.15	C
ATOM	808	O	HIS	A1105	10.054	0.040	3.392	1.00	21.16	O
ATOM	809	N	THR	A1106	8.313	1.067	4.402	1.00	21.46	N
ATOM	810	CA	THR	A1106	7.290	0.160	3.911	1.00	22.28	C
ATOM	811	CB	THR	A1106	6.646	-0.682	5.032	1.00	21.51	C
ATOM	812	OG1	THR	A1106	5.891	0.169	5.904	1.00	19.68	O
ATOM	813	CG2	THR	A1106	7.716	-1.415	5.827	1.00	21.79	C
ATOM	814	C	THR	A1106	6.263	1.161	3.386	1.00	24.40	C
ATOM	815	O	THR	A1106	6.560	2.356	3.309	1.00	22.60	O
ATOM	816	N	ASP	A1107	5.070	0.698	3.032	1.00	25.68	N
ATOM	817	CA	ASP	A1107	4.050	1.612	2.534	1.00	28.90	C
ATOM	818	CB	ASP	A1107	2.952	0.845	1.787	1.00	34.46	C
ATOM	819	CG	ASP	A1107	3.479	0.098	0.574	1.00	40.33	C

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ATOM	877	CA	ILE	A1115	25.885	5.536	14.181	1.00	15.61	C
ATOM	878	CB	ILE	A1115	26.416	4.109	13.951	1.00	17.48	C
ATOM	879	CG2	ILE	A1115	27.514	3.806	14.965	1.00	14.97	C
ATOM	880	CG1	ILE	A1115	25.287	3.086	14.082	1.00	16.92	C
ATOM	881	CD1	ILE	A1115	25.695	1.685	13.638	1.00	16.69	C
ATOM	882	C	ILE	A1115	27.019	6.499	13.860	1.00	17.74	C
ATOM	883	O	ILE	A1115	27.470	6.573	12.714	1.00	16.21	O
ATOM	884	N	LEU	A1116	27.470	7.246	14.864	1.00	17.78	N
ATOM	885	CA	LEU	A1116	28.562	8.188	14.668	1.00	19.32	C
ATOM	886	CB	LEU	A1116	28.333	9.442	15.510	1.00	20.38	C
ATOM	887	CG	LEU	A1116	26.963	10.095	15.322	1.00	20.47	C
ATOM	888	CD1	LEU	A1116	26.877	11.326	16.205	1.00	22.94	C
ATOM	889	CD2	LEU	A1116	26.751	10.462	13.860	1.00	18.60	C
ATOM	890	C	LEU	A1116	29.851	7.490	15.093	1.00	21.10	C
ATOM	891	O	LEU	A1116	29.909	6.870	16.156	1.00	19.16	O
ATOM	892	N	GLU	A1117	30.880	7.590	14.259	1.00	22.54	N
ATOM	893	CA	GLU	A1117	32.141	6.934	14.554	1.00	25.40	C
ATOM	894	CB	GLU	A1117	32.323	5.743	13.616	1.00	25.16	C
ATOM	895	CG	GLU	A1117	33.629	5.000	13.817	1.00	27.61	C
ATOM	896	CD	GLU	A1117	33.720	3.772	12.950	1.00	27.04	C
ATOM	897	OE1	GLU	A1117	33.391	3.875	11.750	1.00	27.90	O
ATOM	898	OE2	GLU	A1117	34.126	2.712	13.465	1.00	27.49	O
ATOM	899	C	GLU	A1117	33.358	7.852	14.464	1.00	27.82	C
ATOM	900	O	GLU	A1117	33.425	8.742	13.616	1.00	26.44	O
ATOM	901	N	GLU	A1118	34.328	7.605	15.339	1.00	31.38	N
ATOM	902	CA	GLU	A1118	35.549	8.396	15.387	1.00	35.38	C
ATOM	903	CB	GLU	A1118	35.632	9.122	16.732	1.00	38.96	C
ATOM	904	CG	GLU	A1118	36.450	10.397	16.711	1.00	44.28	C
ATOM	905	CD	GLU	A1118	35.953	11.381	15.671	1.00	46.94	C
ATOM	906	OE1	GLU	A1118	36.206	11.153	14.469	1.00	47.99	O
ATOM	907	OE2	GLU	A1118	35.302	12.377	16.054	1.00	49.20	O
ATOM	908	C	GLU	A1118	36.756	7.482	15.210	1.00	36.85	C
ATOM	909	O	GLU	A1118	37.586	7.767	14.319	1.00	39.18	O
ATOM	910	OXT	GLU	A1118	36.858	6.488	15.967	1.00	37.85	O
TER	911		GLU	A1118						
ATOM	912	CB	MET	B2003	36.089	-4.001	20.131	1.00	36.93	C
ATOM	913	CG	MET	B2003	35.997	-4.450	21.581	1.00	42.07	C
ATOM	914	SD	MET	B2003	37.062	-5.865	21.964	1.00	49.34	S
ATOM	915	CE	MET	B2003	36.267	-7.158	21.006	1.00	46.76	C
ATOM	916	C	MET	B2003	33.796	-3.017	20.233	1.00	31.67	C
ATOM	917	O	MET	B2003	33.469	-2.921	21.422	1.00	28.54	O
ATOM	918	N	MET	B2003	35.809	-1.560	20.439	1.00	33.64	N
ATOM	919	CA	MET	B2003	35.239	-2.773	19.791	1.00	33.04	C
ATOM	920	N	ILE	B2004	32.938	-3.327	19.264	1.00	29.22	N
ATOM	921	CA	ILE	B2004	31.537	-3.604	19.538	1.00	26.95	C
ATOM	922	CB	ILE	B2004	30.694	-3.586	18.236	1.00	27.19	C
ATOM	923	CG2	ILE	B2004	29.273	-4.070	18.528	1.00	26.67	C
ATOM	924	CG1	ILE	B2004	30.692	-2.175	17.642	1.00	27.75	C
ATOM	925	CD1	ILE	B2004	29.965	-2.048	16.307	1.00	28.82	C
ATOM	926	C	ILE	B2004	31.452	-4.986	20.165	1.00	25.64	C
ATOM	927	O	ILE	B2004	32.092	-5.924	19.693	1.00	26.78	O
ATOM	928	N	VAL	B2005	30.681	-5.114	21.240	1.00	23.42	N
ATOM	929	CA	VAL	B2005	30.534	-6.406	21.904	1.00	22.67	C
ATOM	930	CB	VAL	B2005	31.099	-6.379	23.344	1.00	23.16	C
ATOM	931	CG1	VAL	B2005	32.615	-6.311	23.305	1.00	22.80	C
ATOM	932	CG2	VAL	B2005	30.552	-5.197	24.096	1.00	23.38	C
ATOM	933	C	VAL	B2005	29.086	-6.878	21.948	1.00	21.18	C

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ATOM	934	O	VAL	B2005	28.772	-7.884	22.577	1.00	23.33	O
ATOM	935	N	GLY	B2006	28.200	-6.155	21.275	1.00	19.21	N
ATOM	936	CA	GLY	B2006	26.811	-6.568	21.260	1.00	17.80	C
ATOM	937	C	GLY	B2006	25.896	-5.584	20.567	1.00	17.03	C
ATOM	938	O	GLY	B2006	26.161	-4.387	20.553	1.00	16.68	O
ATOM	939	N	HIS	B2007	24.813	-6.093	19.989	1.00	16.35	N
ATOM	940	CA	HIS	B2007	23.846	-5.237	19.323	1.00	16.88	C
ATOM	941	CB	HIS	B2007	24.216	-5.042	17.847	1.00	17.35	C
ATOM	942	CG	HIS	B2007	23.254	-4.170	17.097	1.00	18.35	C
ATOM	943	CD2	HIS	B2007	22.786	-4.239	15.827	1.00	17.84	C
ATOM	944	ND1	HIS	B2007	22.668	-3.058	17.660	1.00	18.04	N
ATOM	945	CE1	HIS	B2007	21.880	-2.479	16.769	1.00	19.69	C
ATOM	946	NE2	HIS	B2007	21.934	-3.176	15.648	1.00	16.84	N
ATOM	947	C	HIS	B2007	22.447	-5.831	19.444	1.00	17.26	C
ATOM	948	O	HIS	B2007	22.238	-7.027	19.213	1.00	14.74	O
ATOM	949	N	GLY	B2008	21.490	-4.990	19.819	1.00	16.95	N
ATOM	950	CA	GLY	B2008	20.129	-5.464	19.962	1.00	17.68	C
ATOM	951	C	GLY	B2008	19.095	-4.401	19.661	1.00	18.32	C
ATOM	952	O	GLY	B2008	19.321	-3.212	19.901	1.00	19.75	O
ATOM	953	N	ILE	B2009	17.964	-4.830	19.112	1.00	17.31	N
ATOM	954	CA	ILE	B2009	16.868	-3.917	18.821	1.00	18.07	C
ATOM	955	CB	ILE	B2009	16.727	-3.598	17.306	1.00	16.33	C
ATOM	956	CG2	ILE	B2009	18.025	-2.990	16.777	1.00	16.15	C
ATOM	957	CG1	ILE	B2009	16.361	-4.856	16.519	1.00	19.06	C
ATOM	958	CD1	ILE	B2009	16.014	-4.559	15.060	1.00	16.01	C
ATOM	959	C	ILE	B2009	15.607	-4.607	19.312	1.00	17.52	C
ATOM	960	O	ILE	B2009	15.576	-5.827	19.448	1.00	17.73	O
ATOM	961	N	ASP	B2010	14.580	-3.825	19.607	1.00	18.54	N
ATOM	962	CA	ASP	B2010	13.327	-4.384	20.089	1.00	20.76	C
ATOM	963	CB	ASP	B2010	13.401	-4.663	21.598	1.00	21.38	C
ATOM	964	CG	ASP	B2010	12.157	-5.372	22.127	1.00	22.62	C
ATOM	965	OD1	ASP	B2010	11.403	-4.762	22.915	1.00	22.62	O
ATOM	966	OD2	ASP	B2010	11.932	-6.544	21.756	1.00	23.17	O
ATOM	967	C	ASP	B2010	12.198	-3.416	19.814	1.00	21.83	C
ATOM	968	O	ASP	B2010	12.378	-2.200	19.912	1.00	21.02	O
ATOM	969	N	ILE	B2011	11.039	-3.966	19.464	1.00	21.90	N
ATOM	970	CA	ILE	B2011	9.848	-3.163	19.189	1.00	25.52	C
ATOM	971	CB	ILE	B2011	9.346	-3.346	17.752	1.00	27.88	C
ATOM	972	CG2	ILE	B2011	8.410	-2.194	17.388	1.00	30.28	C
ATOM	973	CG1	ILE	B2011	10.518	-3.410	16.783	1.00	29.66	C
ATOM	974	CD1	ILE	B2011	10.131	-3.937	15.420	1.00	31.53	C
ATOM	975	C	ILE	B2011	8.738	-3.670	20.102	1.00	24.08	C
ATOM	976	O	ILE	B2011	8.561	-4.874	20.258	1.00	22.40	O
ATOM	977	N	GLU	B2012	8.002	-2.757	20.718	1.00	24.39	N
ATOM	978	CA	GLU	B2012	6.911	-3.156	21.598	1.00	24.77	C
ATOM	979	CB	GLU	B2012	7.269	-2.868	23.056	1.00	25.42	C
ATOM	980	CG	GLU	B2012	8.482	-3.637	23.554	1.00	28.89	C
ATOM	981	CD	GLU	B2012	8.233	-5.139	23.652	1.00	31.05	C
ATOM	982	OE1	GLU	B2012	9.224	-5.895	23.721	1.00	31.07	O
ATOM	983	OE2	GLU	B2012	7.053	-5.560	23.671	1.00	30.63	O
ATOM	984	C	GLU	B2012	5.655	-2.387	21.208	1.00	24.28	C
ATOM	985	O	GLU	B2012	5.732	-1.235	20.786	1.00	24.45	O
ATOM	986	N	GLU	B2013	4.507	-3.043	21.328	1.00	22.06	N
ATOM	987	CA	GLU	B2013	3.223	-2.431	21.008	1.00	21.01	C
ATOM	988	CB	GLU	B2013	2.241	-3.508	20.545	1.00	21.98	C
ATOM	989	CG	GLU	B2013	0.857	-3.010	20.179	0.05	20.80	C
ATOM	990	CD	GLU	B2013	-0.106	-4.152	19.921	0.05	20.56	C

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ATOM	991	OE1	GLU	B2013	0.231	-5.039	19.109	0.05	20.26	O
ATOM	992	OE2	GLU	B2013	-1.196	-4.166	20.529	0.05	20.00	O
ATOM	993	C	GLU	B2013	2.719	-1.793	22.292	1.00	20.42	C
ATOM	994	O	GLU	B2013	2.644	-2.457	23.326	1.00	19.82	O
ATOM	995	N	LEU	B2014	2.383	-0.512	22.244	1.00	20.95	N
ATOM	996	CA	LEU	B2014	1.906	0.149	23.452	1.00	25.05	C
ATOM	997	CB	LEU	B2014	1.530	1.604	23.162	1.00	26.46	C
ATOM	998	CG	LEU	B2014	2.610	2.478	22.521	1.00	29.15	C
ATOM	999	CD1	LEU	B2014	2.171	3.929	22.610	1.00	32.28	C
ATOM	1000	CD2	LEU	B2014	3.945	2.294	23.225	1.00	28.39	C
ATOM	1001	C	LEU	B2014	0.708	-0.582	24.053	1.00	25.52	C
ATOM	1002	O	LEU	B2014	0.635	-0.773	25.266	1.00	25.48	O
ATOM	1003	N	ALA	B2015	-0.220	-1.001	23.196	1.00	26.92	N
ATOM	1004	CA	ALA	B2015	-1.425	-1.697	23.637	1.00	28.21	C
ATOM	1005	CB	ALA	B2015	-2.267	-2.088	22.426	1.00	29.71	C
ATOM	1006	C	ALA	B2015	-1.144	-2.932	24.490	1.00	29.10	C
ATOM	1007	O	ALA	B2015	-1.864	-3.208	25.450	1.00	29.79	O
ATOM	1008	N	SER	B2016	-0.106	-3.681	24.135	1.00	29.36	N
ATOM	1009	CA	SER	B2016	0.246	-4.885	24.875	1.00	30.31	C
ATOM	1010	CB	SER	B2016	1.357	-5.633	24.147	1.00	32.28	C
ATOM	1011	OG	SER	B2016	1.032	-5.782	22.779	1.00	33.64	O
ATOM	1012	C	SER	B2016	0.705	-4.508	26.275	1.00	30.37	C
ATOM	1013	O	SER	B2016	0.369	-5.170	27.260	1.00	29.37	O
ATOM	1014	N	ILE	B2017	1.476	-3.431	26.353	1.00	30.04	N
ATOM	1015	CA	ILE	B2017	1.979	-2.955	27.625	1.00	30.17	C
ATOM	1016	CB	ILE	B2017	2.907	-1.741	27.420	1.00	29.67	C
ATOM	1017	CG2	ILE	B2017	3.323	-1.153	28.765	1.00	31.54	C
ATOM	1018	CG1	ILE	B2017	4.141	-2.178	26.630	1.00	29.63	C
ATOM	1019	CD1	ILE	B2017	4.883	-3.368	27.246	1.00	29.53	C
ATOM	1020	C	ILE	B2017	0.814	-2.585	28.537	1.00	30.53	C
ATOM	1021	O	ILE	B2017	0.736	-3.051	29.673	1.00	29.90	O
ATOM	1022	N	GLU	B2018	-0.100	-1.762	28.034	1.00	31.91	N
ATOM	1023	CA	GLU	B2018	-1.252	-1.363	28.831	1.00	34.92	C
ATOM	1024	CB	GLU	B2018	-2.113	-0.355	28.064	1.00	37.97	C
ATOM	1025	CG	GLU	B2018	-1.895	-0.370	26.565	1.00	42.86	C
ATOM	1026	CD	GLU	B2018	-2.698	0.700	25.844	1.00	45.97	C
ATOM	1027	OE1	GLU	B2018	-3.945	0.608	25.843	1.00	47.86	O
ATOM	1028	OE2	GLU	B2018	-2.084	1.633	25.279	1.00	47.02	O
ATOM	1029	C	GLU	B2018	-2.085	-2.573	29.247	1.00	34.56	C
ATOM	1030	O	GLU	B2018	-2.490	-2.678	30.404	1.00	35.89	O
ATOM	1031	N	SER	B2019	-2.349	-3.488	28.321	1.00	33.29	N
ATOM	1032	CA	SER	B2019	-3.117	-4.674	28.681	1.00	33.75	C
ATOM	1033	CB	SER	B2019	-3.270	-5.623	27.490	1.00	32.73	C
ATOM	1034	OG	SER	B2019	-4.314	-5.203	26.635	1.00	36.89	O
ATOM	1035	C	SER	B2019	-2.416	-5.402	29.822	1.00	33.12	C
ATOM	1036	O	SER	B2019	-3.066	-5.963	30.698	1.00	32.83	O
ATOM	1037	N	ALA	B2020	-1.087	-5.398	29.808	1.00	33.22	N
ATOM	1038	CA	ALA	B2020	-0.329	-6.055	30.869	1.00	35.36	C
ATOM	1039	CB	ALA	B2020	1.157	-6.105	30.510	1.00	34.87	C
ATOM	1040	C	ALA	B2020	-0.537	-5.295	32.179	1.00	36.08	C
ATOM	1041	O	ALA	B2020	-0.669	-5.898	33.241	1.00	34.70	O
ATOM	1042	N	VAL	B2021	-0.570	-3.968	32.097	1.00	38.89	N
ATOM	1043	CA	VAL	B2021	-0.783	-3.133	33.277	1.00	42.15	C
ATOM	1044	CB	VAL	B2021	-0.672	-1.627	32.931	1.00	42.05	C
ATOM	1045	CG1	VAL	B2021	-1.060	-0.775	34.138	1.00	42.48	C
ATOM	1046	CG2	VAL	B2021	0.746	-1.298	32.504	1.00	42.42	C
ATOM	1047	C	VAL	B2021	-2.176	-3.410	33.841	1.00	44.98	C

ATOM	1048	O	VAL	B2021	-2.491	-3.029	34.967	1.00	45.67	O
ATOM	1049	N	THR	B2022	-3.001	-4.085	33.047	1.00	47.50	N
ATOM	1050	CA	THR	B2022	-4.359	-4.420	33.451	1.00	50.10	C
ATOM	1051	CB	THR	B2022	-5.323	-4.368	32.236	1.00	51.16	C
ATOM	1052	OG1	THR	B2022	-5.501	-3.007	31.824	1.00	53.24	O
ATOM	1053	CG2	THR	B2022	-6.677	-4.957	32.592	1.00	52.95	C
ATOM	1054	C	THR	B2022	-4.454	-5.799	34.109	1.00	50.81	C
ATOM	1055	O	THR	B2022	-4.937	-5.918	35.232	1.00	51.36	O
ATOM	1056	N	ARG	B2023	-3.988	-6.836	33.421	1.00	51.25	N
ATOM	1057	CA	ARG	B2023	-4.064	-8.187	33.968	1.00	52.22	C
ATOM	1058	CB	ARG	B2023	-3.746	-9.220	32.883	1.00	52.29	C
ATOM	1059	CG	ARG	B2023	-4.157	-10.644	33.242	0.05	51.97	C
ATOM	1060	CD	ARG	B2023	-5.531	-10.663	33.905	0.05	51.83	C
ATOM	1061	NE	ARG	B2023	-6.183	-11.966	33.828	0.05	51.66	N
ATOM	1062	CZ	ARG	B2023	-6.697	-12.474	32.713	0.05	51.57	C
ATOM	1063	NH1	ARG	B2023	-6.634	-11.789	31.579	0.05	51.47	N
ATOM	1064	NH2	ARG	B2023	-7.284	-13.663	32.730	0.05	51.49	N
ATOM	1065	C	ARG	B2023	-3.157	-8.405	35.173	1.00	53.22	C
ATOM	1066	O	ARG	B2023	-3.256	-9.424	35.859	1.00	53.07	O
ATOM	1067	N	HIS	B2024	-2.274	-7.447	35.432	1.00	53.34	N
ATOM	1068	CA	HIS	B2024	-1.365	-7.544	36.564	1.00	53.62	C
ATOM	1069	CB	HIS	B2024	-0.042	-8.176	36.127	1.00	54.97	C
ATOM	1070	CG	HIS	B2024	-0.208	-9.477	35.403	1.00	56.91	C
ATOM	1071	CD2	HIS	B2024	-0.006	-10.755	35.805	1.00	57.80	C
ATOM	1072	ND1	HIS	B2024	-0.660	-9.552	34.103	1.00	57.75	N
ATOM	1073	CE1	HIS	B2024	-0.729	-10.820	33.735	1.00	58.06	C
ATOM	1074	NE2	HIS	B2024	-0.338	-11.570	34.750	1.00	57.59	N
ATOM	1075	C	HIS	B2024	-1.127	-6.157	37.148	1.00	53.35	C
ATOM	1076	O	HIS	B2024	-0.312	-5.385	36.644	1.00	53.29	O
ATOM	1077	N	GLU	B2025	-1.861	-5.854	38.214	1.00	52.80	N
ATOM	1078	CA	GLU	B2025	-1.785	-4.569	38.905	1.00	51.46	C
ATOM	1079	CB	GLU	B2025	-2.618	-4.637	40.188	1.00	54.49	C
ATOM	1080	CG	GLU	B2025	-4.095	-4.920	39.949	1.00	56.85	C
ATOM	1081	CD	GLU	B2025	-4.798	-5.434	41.190	1.00	58.84	C
ATOM	1082	OE1	GLU	B2025	-4.520	-6.584	41.595	1.00	60.08	O
ATOM	1083	OE2	GLU	B2025	-5.624	-4.690	41.763	1.00	59.42	O
ATOM	1084	C	GLU	B2025	-0.364	-4.122	39.247	1.00	48.83	C
ATOM	1085	O	GLU	B2025	-0.058	-2.931	39.211	1.00	48.34	O
ATOM	1086	N	GLY	B2026	0.497	-5.074	39.588	1.00	45.49	N
ATOM	1087	CA	GLY	B2026	1.864	-4.729	39.932	1.00	40.95	C
ATOM	1088	C	GLY	B2026	2.826	-4.920	38.774	1.00	37.63	C
ATOM	1089	O	GLY	B2026	4.027	-5.077	38.978	1.00	37.06	O
ATOM	1090	N	PHE	B2027	2.301	-4.902	37.554	1.00	33.22	N
ATOM	1091	CA	PHE	B2027	3.135	-5.083	36.374	1.00	30.35	C
ATOM	1092	CB	PHE	B2027	2.287	-4.995	35.105	1.00	29.47	C
ATOM	1093	CG	PHE	B2027	3.079	-5.162	33.840	1.00	28.37	C
ATOM	1094	CD1	PHE	B2027	3.501	-6.421	33.431	1.00	28.75	C
ATOM	1095	CD2	PHE	B2027	3.432	-4.055	33.076	1.00	26.82	C
ATOM	1096	CE1	PHE	B2027	4.264	-6.575	32.277	1.00	27.85	C
ATOM	1097	CE2	PHE	B2027	4.195	-4.199	31.919	1.00	27.50	C
ATOM	1098	CZ	PHE	B2027	4.611	-5.458	31.520	1.00	28.11	C
ATOM	1099	C	PHE	B2027	4.245	-4.038	36.303	1.00	28.35	C
ATOM	1100	O	PHE	B2027	5.419	-4.378	36.179	1.00	27.55	O
ATOM	1101	N	ALA	B2028	3.863	-2.768	36.376	1.00	26.54	N
ATOM	1102	CA	ALA	B2028	4.820	-1.674	36.306	1.00	26.97	C
ATOM	1103	CB	ALA	B2028	4.103	-0.340	36.503	1.00	26.06	C
ATOM	1104	C	ALA	B2028	5.938	-1.815	37.329	1.00	27.20	C

ATOM	1105	O	ALA	B2028	7.112	-1.697	36.998	1.00	26.33	O
ATOM	1106	N	LYS	B2029	5.555	-2.075	38.572	1.00	28.14	N
ATOM	1107	CA	LYS	B2029	6.496	-2.213	39.673	1.00	30.24	C
ATOM	1108	CB	LYS	B2029	5.738	-2.543	40.965	1.00	33.94	C
ATOM	1109	CG	LYS	B2029	6.597	-2.502	42.215	1.00	39.10	C
ATOM	1110	CD	LYS	B2029	7.038	-1.082	42.540	1.00	42.39	C
ATOM	1111	CE	LYS	B2029	8.108	-1.070	43.629	1.00	45.14	C
ATOM	1112	NZ	LYS	B2029	7.712	-1.858	44.836	1.00	46.16	N
ATOM	1113	C	LYS	B2029	7.567	-3.264	39.437	1.00	28.56	C
ATOM	1114	O	LYS	B2029	8.696	-3.114	39.902	1.00	28.42	O
ATOM	1115	N	ARG	B2030	7.219	-4.325	38.717	1.00	26.96	N
ATOM	1116	CA	ARG	B2030	8.171	-5.397	38.452	1.00	25.76	C
ATOM	1117	CB	ARG	B2030	7.430	-6.708	38.180	1.00	27.87	C
ATOM	1118	CG	ARG	B2030	6.318	-7.007	39.174	0.05	26.73	C
ATOM	1119	CD	ARG	B2030	6.358	-8.451	39.652	0.05	26.68	C
ATOM	1120	NE	ARG	B2030	6.295	-9.416	38.557	0.05	26.45	N
ATOM	1121	CZ	ARG	B2030	5.263	-9.553	37.730	0.05	26.36	C
ATOM	1122	NH1	ARG	B2030	4.191	-8.783	37.862	0.05	26.22	N
ATOM	1123	NH2	ARG	B2030	5.301	-10.469	36.771	0.05	26.29	N
ATOM	1124	C	ARG	B2030	9.069	-5.076	37.266	1.00	24.16	C
ATOM	1125	O	ARG	B2030	10.200	-5.551	37.187	1.00	22.83	O
ATOM	1126	N	VAL	B2031	8.559	-4.270	36.341	1.00	22.75	N
ATOM	1127	CA	VAL	B2031	9.319	-3.903	35.158	1.00	22.54	C
ATOM	1128	CB	VAL	B2031	8.371	-3.536	33.984	1.00	23.94	C
ATOM	1129	CG1	VAL	B2031	9.156	-2.884	32.855	1.00	24.54	C
ATOM	1130	CG2	VAL	B2031	7.677	-4.794	33.467	1.00	24.38	C
ATOM	1131	C	VAL	B2031	10.264	-2.739	35.409	1.00	21.20	C
ATOM	1132	O	VAL	B2031	11.364	-2.699	34.858	1.00	21.89	O
ATOM	1133	N	LEU	B2032	9.837	-1.805	36.252	1.00	20.43	N
ATOM	1134	CA	LEU	B2032	10.623	-0.607	36.552	1.00	21.46	C
ATOM	1135	CB	LEU	B2032	9.722	0.624	36.459	1.00	21.16	C
ATOM	1136	CG	LEU	B2032	8.902	0.814	35.180	1.00	22.44	C
ATOM	1137	CD1	LEU	B2032	7.913	1.951	35.383	1.00	25.05	C
ATOM	1138	CD2	LEU	B2032	9.822	1.107	34.003	1.00	23.51	C
ATOM	1139	C	LEU	B2032	11.289	-0.613	37.928	1.00	20.88	C
ATOM	1140	O	LEU	B2032	10.758	-1.188	38.875	1.00	24.06	O
ATOM	1141	N	THR	B2033	12.451	0.027	38.035	1.00	20.86	N
ATOM	1142	CA	THR	B2033	13.147	0.117	39.317	1.00	20.81	C
ATOM	1143	CB	THR	B2033	14.602	0.569	39.160	1.00	20.39	C
ATOM	1144	OG1	THR	B2033	14.623	1.853	38.521	1.00	21.21	O
ATOM	1145	CG2	THR	B2033	15.394	-0.443	38.341	1.00	20.57	C
ATOM	1146	C	THR	B2033	12.432	1.189	40.119	1.00	21.74	C
ATOM	1147	O	THR	B2033	11.479	1.806	39.635	1.00	22.52	O
ATOM	1148	N	ALA	B2034	12.893	1.427	41.339	1.00	22.64	N
ATOM	1149	CA	ALA	B2034	12.267	2.441	42.177	1.00	24.18	C
ATOM	1150	CB	ALA	B2034	12.939	2.479	43.541	1.00	24.55	C
ATOM	1151	C	ALA	B2034	12.371	3.806	41.502	1.00	25.08	C
ATOM	1152	O	ALA	B2034	11.393	4.555	41.437	1.00	24.57	O
ATOM	1153	N	LEU	B2035	13.558	4.119	40.989	1.00	25.67	N
ATOM	1154	CA	LEU	B2035	13.786	5.403	40.337	1.00	27.37	C
ATOM	1155	CB	LEU	B2035	15.274	5.576	40.025	1.00	30.75	C
ATOM	1156	CG	LEU	B2035	15.792	7.017	40.016	1.00	34.25	C
ATOM	1157	CD1	LEU	B2035	15.529	7.681	41.373	1.00	34.25	C
ATOM	1158	CD2	LEU	B2035	17.286	7.010	39.715	1.00	36.03	C
ATOM	1159	C	LEU	B2035	12.948	5.550	39.066	1.00	26.19	C
ATOM	1160	O	LEU	B2035	12.424	6.625	38.789	1.00	25.81	O
ATOM	1161	N	GLU	B2036	12.829	4.479	38.288	1.00	24.86	N

ATOM	1162	CA	GLU	B2036	12.010	4.523	37.074	1.00	24.94	C
ATOM	1163	CB	GLU	B2036	12.218	3.256	36.238	1.00	24.20	C
ATOM	1164	CG	GLU	B2036	13.521	3.220	35.439	1.00	22.34	C
ATOM	1165	CD	GLU	B2036	13.823	1.834	34.878	1.00	22.43	C
ATOM	1166	OE1	GLU	B2036	14.592	1.744	33.899	1.00	20.15	O
ATOM	1167	OE2	GLU	B2036	13.302	0.834	35.425	1.00	21.31	O
ATOM	1168	C	GLU	B2036	10.528	4.645	37.461	1.00	25.14	C
ATOM	1169	O	GLU	B2036	9.740	5.261	36.746	1.00	24.49	O
ATOM	1170	N	MET	B2037	10.155	4.051	38.593	1.00	25.36	N
ATOM	1171	CA	MET	B2037	8.772	4.116	39.067	1.00	27.03	C
ATOM	1172	CB	MET	B2037	8.570	3.202	40.279	1.00	28.19	C
ATOM	1173	CG	MET	B2037	8.077	1.811	39.932	1.00	30.50	C
ATOM	1174	SD	MET	B2037	6.592	1.878	38.903	1.00	35.36	S
ATOM	1175	CE	MET	B2037	5.315	2.130	40.111	1.00	31.11	C
ATOM	1176	C	MET	B2037	8.389	5.541	39.445	1.00	27.51	C
ATOM	1177	O	MET	B2037	7.288	6.004	39.146	1.00	27.72	O
ATOM	1178	N	GLU	B2038	9.309	6.232	40.104	1.00	29.26	N
ATOM	1179	CA	GLU	B2038	9.075	7.604	40.522	1.00	30.50	C
ATOM	1180	CB	GLU	B2038	10.261	8.089	41.363	1.00	33.66	C
ATOM	1181	CG	GLU	B2038	10.100	7.747	42.852	1.00	38.27	C
ATOM	1182	CD	GLU	B2038	11.384	7.278	43.517	1.00	41.20	C
ATOM	1183	OE1	GLU	B2038	12.448	7.886	43.264	1.00	41.95	O
ATOM	1184	OE2	GLU	B2038	11.322	6.307	44.309	1.00	42.56	O
ATOM	1185	C	GLU	B2038	8.827	8.512	39.320	1.00	29.98	C
ATOM	1186	O	GLU	B2038	8.059	9.473	39.403	1.00	29.40	O
ATOM	1187	N	ARG	B2039	9.465	8.198	38.198	1.00	28.37	N
ATOM	1188	CA	ARG	B2039	9.272	8.973	36.986	1.00	28.60	C
ATOM	1189	CB	ARG	B2039	10.374	8.670	35.973	1.00	32.59	C
ATOM	1190	CG	ARG	B2039	10.103	9.236	34.589	1.00	36.59	C
ATOM	1191	CD	ARG	B2039	9.892	10.740	34.627	1.00	42.20	C
ATOM	1192	NE	ARG	B2039	9.750	11.301	33.284	1.00	46.45	N
ATOM	1193	CZ	ARG	B2039	9.599	12.597	33.025	1.00	48.88	C
ATOM	1194	NH1	ARG	B2039	9.477	13.014	31.770	1.00	48.84	N
ATOM	1195	NH2	ARG	B2039	9.570	13.478	34.018	1.00	49.51	N
ATOM	1196	C	ARG	B2039	7.926	8.585	36.397	1.00	27.40	C
ATOM	1197	O	ARG	B2039	7.107	9.439	36.047	1.00	28.21	O
ATOM	1198	N	PHE	B2040	7.717	7.280	36.291	1.00	25.73	N
ATOM	1199	CA	PHE	B2040	6.489	6.710	35.758	1.00	26.22	C
ATOM	1200	CB	PHE	B2040	6.546	5.185	35.916	1.00	24.31	C
ATOM	1201	CG	PHE	B2040	5.265	4.477	35.573	1.00	26.63	C
ATOM	1202	CD1	PHE	B2040	4.871	4.318	34.248	1.00	26.24	C
ATOM	1203	CD2	PHE	B2040	4.467	3.938	36.579	1.00	26.94	C
ATOM	1204	CE1	PHE	B2040	3.698	3.627	33.930	1.00	27.58	C
ATOM	1205	CE2	PHE	B2040	3.297	3.249	36.276	1.00	27.41	C
ATOM	1206	CZ	PHE	B2040	2.911	3.090	34.950	1.00	27.69	C
ATOM	1207	C	PHE	B2040	5.245	7.262	36.463	1.00	26.33	C
ATOM	1208	O	PHE	B2040	4.269	7.622	35.814	1.00	27.93	O
ATOM	1209	N	THR	B2041	5.287	7.324	37.792	1.00	27.19	N
ATOM	1210	CA	THR	B2041	4.151	7.805	38.575	1.00	27.42	C
ATOM	1211	CB	THR	B2041	4.328	7.485	40.078	1.00	27.34	C
ATOM	1212	OG1	THR	B2041	5.504	8.132	40.577	1.00	28.52	O
ATOM	1213	CG2	THR	B2041	4.458	5.986	40.294	1.00	28.04	C
ATOM	1214	C	THR	B2041	3.896	9.304	38.432	1.00	28.31	C
ATOM	1215	O	THR	B2041	2.840	9.796	38.840	1.00	27.03	O
ATOM	1216	N	SER	B2042	4.854	10.024	37.853	1.00	28.11	N
ATOM	1217	CA	SER	B2042	4.706	11.465	37.665	1.00	31.34	C
ATOM	1218	CB	SER	B2042	6.039	12.179	37.896	1.00	32.90	C

ATOM	1219	OG	SER	B2042	6.326	12.278	39.282	1.00	36.54	O
ATOM	1220	C	SER	B2042	4.168	11.841	36.289	1.00	31.32	C
ATOM	1221	O	SER	B2042	3.909	13.012	36.018	1.00	30.89	O
ATOM	1222	N	LEU	B2043	4.008	10.849	35.421	1.00	31.83	N
ATOM	1223	CA	LEU	B2043	3.487	11.088	34.077	1.00	31.92	C
ATOM	1224	CB	LEU	B2043	4.293	10.300	33.038	1.00	29.48	C
ATOM	1225	CG	LEU	B2043	5.785	10.603	32.912	1.00	29.62	C
ATOM	1226	CD1	LEU	B2043	6.420	9.633	31.921	1.00	29.54	C
ATOM	1227	CD2	LEU	B2043	5.985	12.035	32.462	1.00	29.33	C
ATOM	1228	C	LEU	B2043	2.039	10.623	34.058	1.00	33.01	C
ATOM	1229	O	LEU	B2043	1.569	10.030	35.026	1.00	32.48	O
ATOM	1230	N	LYS	B2044	1.337	10.877	32.957	1.00	36.01	N
ATOM	1231	CA	LYS	B2044	-0.060	10.469	32.850	1.00	38.06	C
ATOM	1232	CB	LYS	B2044	-0.967	11.586	33.375	1.00	39.86	C
ATOM	1233	CG	LYS	B2044	-2.402	11.149	33.619	1.00	43.44	C
ATOM	1234	CD	LYS	B2044	-3.295	12.317	34.013	1.00	45.82	C
ATOM	1235	CE	LYS	B2044	-4.630	11.825	34.554	1.00	46.21	C
ATOM	1236	NZ	LYS	B2044	-5.292	10.879	33.615	1.00	47.83	N
ATOM	1237	C	LYS	B2044	-0.472	10.116	31.422	1.00	38.81	C
ATOM	1238	O	LYS	B2044	0.225	10.438	30.459	1.00	39.23	O
ATOM	1239	N	GLY	B2045	-1.611	9.443	31.299	1.00	39.57	N
ATOM	1240	CA	GLY	B2045	-2.134	9.068	29.996	1.00	40.10	C
ATOM	1241	C	GLY	B2045	-1.177	8.355	29.062	1.00	40.74	C
ATOM	1242	O	GLY	B2045	-0.513	7.394	29.454	1.00	41.23	O
ATOM	1243	N	ARG	B2046	-1.115	8.832	27.820	1.00	41.17	N
ATOM	1244	CA	ARG	B2046	-0.255	8.249	26.791	1.00	41.02	C
ATOM	1245	CB	ARG	B2046	-0.396	9.015	25.472	1.00	43.31	C
ATOM	1246	CG	ARG	B2046	-1.812	9.081	24.931	1.00	47.77	C
ATOM	1247	CD	ARG	B2046	-1.882	9.873	23.627	1.00	50.51	C
ATOM	1248	NE	ARG	B2046	-3.260	10.180	23.244	1.00	52.23	N
ATOM	1249	CZ	ARG	B2046	-3.611	10.768	22.103	1.00	52.56	C
ATOM	1250	NH1	ARG	B2046	-4.890	11.012	21.844	1.00	52.50	N
ATOM	1251	NH2	ARG	B2046	-2.684	11.107	21.217	1.00	53.75	N
ATOM	1252	C	ARG	B2046	1.212	8.229	27.184	1.00	39.59	C
ATOM	1253	O	ARG	B2046	1.873	7.198	27.078	1.00	38.95	O
ATOM	1254	N	ARG	B2047	1.718	9.375	27.631	1.00	38.59	N
ATOM	1255	CA	ARG	B2047	3.117	9.492	28.022	1.00	36.93	C
ATOM	1256	CB	ARG	B2047	3.415	10.914	28.497	1.00	39.53	C
ATOM	1257	CG	ARG	B2047	3.284	11.965	27.408	1.00	43.89	C
ATOM	1258	CD	ARG	B2047	3.915	13.275	27.843	1.00	46.98	C
ATOM	1259	NE	ARG	B2047	5.322	13.091	28.189	1.00	49.81	N
ATOM	1260	CZ	ARG	B2047	6.145	14.072	28.545	1.00	50.90	C
ATOM	1261	NH1	ARG	B2047	5.708	15.324	28.603	1.00	51.65	N
ATOM	1262	NH2	ARG	B2047	7.409	13.800	28.845	1.00	52.13	N
ATOM	1263	C	ARG	B2047	3.543	8.496	29.095	1.00	34.22	C
ATOM	1264	O	ARG	B2047	4.671	8.017	29.086	1.00	33.86	O
ATOM	1265	N	GLN	B2048	2.646	8.187	30.022	1.00	31.68	N
ATOM	1266	CA	GLN	B2048	2.968	7.247	31.081	1.00	29.06	C
ATOM	1267	CB	GLN	B2048	1.844	7.212	32.121	1.00	29.98	C
ATOM	1268	CG	GLN	B2048	2.236	6.524	33.420	1.00	32.80	C
ATOM	1269	CD	GLN	B2048	1.089	6.443	34.415	1.00	34.55	C
ATOM	1270	OE1	GLN	B2048	1.297	6.158	35.596	1.00	36.97	O
ATOM	1271	NE2	GLN	B2048	-0.125	6.682	33.940	1.00	33.10	N
ATOM	1272	C	GLN	B2048	3.161	5.861	30.471	1.00	27.54	C
ATOM	1273	O	GLN	B2048	4.134	5.170	30.769	1.00	26.96	O
ATOM	1274	N	ILE	B2049	2.230	5.459	29.612	1.00	25.61	N
ATOM	1275	CA	ILE	B2049	2.318	4.159	28.961	1.00	24.60	C

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ATOM	1276	CB	ILE	B2049	1.099	3.894	28.053	1.00	24.71	C
ATOM	1277	CG2	ILE	B2049	1.310	2.606	27.254	1.00	25.39	C
ATOM	1278	CG1	ILE	B2049	-0.174	3.814	28.906	1.00	25.99	C
ATOM	1279	CD1	ILE	B2049	-0.111	2.776	30.004	1.00	26.01	C
ATOM	1280	C	ILE	B2049	3.570	4.090	28.104	1.00	23.58	C
ATOM	1281	O	ILE	B2049	4.281	3.091	28.120	1.00	24.35	O
ATOM	1282	N	GLU	B2050	3.828	5.160	27.360	1.00	22.52	N
ATOM	1283	CA	GLU	B2050	4.985	5.238	26.482	1.00	23.92	C
ATOM	1284	CB	GLU	B2050	4.980	6.575	25.739	1.00	24.81	C
ATOM	1285	CG	GLU	B2050	6.216	6.842	24.901	1.00	27.69	C
ATOM	1286	CD	GLU	B2050	6.470	5.767	23.859	1.00	30.29	C
ATOM	1287	OE1	GLU	B2050	5.514	5.384	23.149	1.00	32.11	O
ATOM	1288	OE2	GLU	B2050	7.632	5.314	23.740	1.00	29.75	O
ATOM	1289	C	GLU	B2050	6.278	5.085	27.270	1.00	23.59	C
ATOM	1290	O	GLU	B2050	7.235	4.452	26.804	1.00	23.37	O
ATOM	1291	N	TYR	B2051	6.304	5.666	28.466	1.00	23.27	N
ATOM	1292	CA	TYR	B2051	7.487	5.584	29.306	1.00	23.17	C
ATOM	1293	CB	TYR	B2051	7.300	6.397	30.592	1.00	22.74	C
ATOM	1294	CG	TYR	B2051	8.520	6.367	31.492	1.00	22.74	C
ATOM	1295	CD1	TYR	B2051	8.667	5.382	32.474	1.00	21.76	C
ATOM	1296	CE1	TYR	B2051	9.818	5.317	33.263	1.00	23.29	C
ATOM	1297	CD2	TYR	B2051	9.555	7.288	31.324	1.00	21.56	C
ATOM	1298	CE2	TYR	B2051	10.708	7.230	32.106	1.00	22.47	C
ATOM	1299	CZ	TYR	B2051	10.832	6.243	33.072	1.00	24.14	C
ATOM	1300	OH	TYR	B2051	11.973	6.182	33.843	1.00	26.11	O
ATOM	1301	C	TYR	B2051	7.749	4.123	29.645	1.00	22.35	C
ATOM	1302	O	TYR	B2051	8.834	3.603	29.397	1.00	21.78	O
ATOM	1303	N	LEU	B2052	6.735	3.470	30.200	1.00	21.05	N
ATOM	1304	CA	LEU	B2052	6.820	2.069	30.581	1.00	20.91	C
ATOM	1305	CB	LEU	B2052	5.486	1.626	31.193	1.00	19.71	C
ATOM	1306	CG	LEU	B2052	5.321	0.141	31.535	1.00	20.97	C
ATOM	1307	CD1	LEU	B2052	6.463	-0.293	32.453	1.00	20.68	C
ATOM	1308	CD2	LEU	B2052	3.953	-0.092	32.206	1.00	18.56	C
ATOM	1309	C	LEU	B2052	7.176	1.164	29.394	1.00	19.19	C
ATOM	1310	O	LEU	B2052	8.055	0.305	29.502	1.00	18.65	O
ATOM	1311	N	ALA	B2053	6.501	1.365	28.264	1.00	18.96	N
ATOM	1312	CA	ALA	B2053	6.748	0.553	27.075	1.00	18.97	C
ATOM	1313	CB	ALA	B2053	5.712	0.867	26.003	1.00	19.24	C
ATOM	1314	C	ALA	B2053	8.153	0.777	26.526	1.00	19.65	C
ATOM	1315	O	ALA	B2053	8.811	-0.167	26.067	1.00	19.77	O
ATOM	1316	N	GLY	B2054	8.604	2.028	26.569	1.00	18.25	N
ATOM	1317	CA	GLY	B2054	9.930	2.355	26.084	1.00	16.89	C
ATOM	1318	C	GLY	B2054	11.004	1.748	26.970	1.00	18.42	C
ATOM	1319	O	GLY	B2054	12.072	1.344	26.488	1.00	17.94	O
ATOM	1320	N	ARG	B2055	10.731	1.692	28.270	1.00	16.40	N
ATOM	1321	CA	ARG	B2055	11.684	1.112	29.202	1.00	19.09	C
ATOM	1322	CB	ARG	B2055	11.253	1.377	30.647	1.00	20.94	C
ATOM	1323	CG	ARG	B2055	12.060	2.478	31.329	1.00	20.89	C
ATOM	1324	CD	ARG	B2055	11.968	3.790	30.570	1.00	24.51	C
ATOM	1325	NE	ARG	B2055	12.987	4.745	31.003	1.00	25.33	N
ATOM	1326	CZ	ARG	B2055	13.239	5.897	30.388	1.00	25.95	C
ATOM	1327	NH1	ARG	B2055	12.544	6.243	29.313	1.00	23.97	N
ATOM	1328	NH2	ARG	B2055	14.194	6.700	30.843	1.00	25.82	N
ATOM	1329	C	ARG	B2055	11.774	-0.386	28.932	1.00	18.98	C
ATOM	1330	O	ARG	B2055	12.855	-0.971	28.985	1.00	18.90	O
ATOM	1331	N	TRP	B2056	10.632	-1.003	28.631	1.00	20.10	N
ATOM	1332	CA	TRP	B2056	10.613	-2.426	28.322	1.00	20.52	C

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ATOM	1333	CB	TRP	B2056	9.178	-2.930	28.107	1.00	22.74	C
ATOM	1334	CG	TRP	B2056	9.118	-4.394	27.738	1.00	26.17	C
ATOM	1335	CD2	TRP	B2056	8.573	-5.459	28.527	1.00	27.99	C
ATOM	1336	CE2	TRP	B2056	8.791	-6.661	27.815	1.00	28.39	C
ATOM	1337	CE3	TRP	B2056	7.924	-5.516	29.767	1.00	27.60	C
ATOM	1338	CD1	TRP	B2056	9.623	-4.978	26.607	1.00	26.87	C
ATOM	1339	NE1	TRP	B2056	9.432	-6.337	26.648	1.00	29.27	N
ATOM	1340	CZ2	TRP	B2056	8.384	-7.906	28.301	1.00	29.62	C
ATOM	1341	CZ3	TRP	B2056	7.516	-6.760	30.253	1.00	30.44	C
ATOM	1342	CH2	TRP	B2056	7.750	-7.937	29.519	1.00	30.93	C
ATOM	1343	C	TRP	B2056	11.430	-2.659	27.056	1.00	18.69	C
ATOM	1344	O	TRP	B2056	12.265	-3.562	27.007	1.00	15.35	O
ATOM	1345	N	SER	B2057	11.190	-1.843	26.032	1.00	18.10	N
ATOM	1346	CA	SER	B2057	11.925	-1.993	24.778	1.00	19.73	C
ATOM	1347	CB	SER	B2057	11.475	-0.948	23.756	1.00	21.79	C
ATOM	1348	OG	SER	B2057	10.174	-1.245	23.273	1.00	30.44	O
ATOM	1349	C	SER	B2057	13.427	-1.857	25.009	1.00	17.21	C
ATOM	1350	O	SER	B2057	14.207	-2.679	24.539	1.00	17.96	O
ATOM	1351	N	ALA	B2058	13.821	-0.814	25.728	1.00	15.24	N
ATOM	1352	CA	ALA	B2058	15.233	-0.568	26.016	1.00	15.12	C
ATOM	1353	CB	ALA	B2058	15.387	0.718	26.819	1.00	14.34	C
ATOM	1354	C	ALA	B2058	15.879	-1.724	26.768	1.00	15.45	C
ATOM	1355	O	ALA	B2058	16.981	-2.158	26.421	1.00	14.80	O
ATOM	1356	N	LYS	B2059	15.203	-2.216	27.804	1.00	15.14	N
ATOM	1357	CA	LYS	B2059	15.748	-3.315	28.593	1.00	16.97	C
ATOM	1358	CB	LYS	B2059	14.909	-3.523	29.860	1.00	18.38	C
ATOM	1359	CG	LYS	B2059	14.958	-2.303	30.796	1.00	17.80	C
ATOM	1360	CD	LYS	B2059	14.216	-2.546	32.097	1.00	19.77	C
ATOM	1361	CE	LYS	B2059	14.345	-1.327	33.021	1.00	19.57	C
ATOM	1362	NZ	LYS	B2059	13.932	-1.624	34.417	1.00	20.44	N
ATOM	1363	C	LYS	B2059	15.857	-4.608	27.792	1.00	17.95	C
ATOM	1364	O	LYS	B2059	16.805	-5.375	27.967	1.00	16.15	O
ATOM	1365	N	GLU	B2060	14.897	-4.844	26.904	1.00	17.88	N
ATOM	1366	CA	GLU	B2060	14.923	-6.041	26.070	1.00	17.87	C
ATOM	1367	CB	GLU	B2060	13.551	-6.261	25.420	1.00	19.58	C
ATOM	1368	CG	GLU	B2060	13.519	-7.359	24.361	1.00	23.62	C
ATOM	1369	CD	GLU	B2060	13.834	-8.753	24.897	1.00	24.96	C
ATOM	1370	OE1	GLU	B2060	14.150	-8.906	26.099	1.00	27.91	O
ATOM	1371	OE2	GLU	B2060	13.764	-9.707	24.096	1.00	27.02	O
ATOM	1372	C	GLU	B2060	16.013	-5.885	24.999	1.00	17.82	C
ATOM	1373	O	GLU	B2060	16.769	-6.816	24.741	1.00	16.78	O
ATOM	1374	N	ALA	B2061	16.106	-4.700	24.396	1.00	15.53	N
ATOM	1375	CA	ALA	B2061	17.126	-4.443	23.379	1.00	15.22	C
ATOM	1376	CB	ALA	B2061	17.017	-3.010	22.868	1.00	12.83	C
ATOM	1377	C	ALA	B2061	18.514	-4.683	23.984	1.00	15.45	C
ATOM	1378	O	ALA	B2061	19.396	-5.252	23.337	1.00	15.13	O
ATOM	1379	N	PHE	B2062	18.699	-4.248	25.227	1.00	15.78	N
ATOM	1380	CA	PHE	B2062	19.965	-4.441	25.923	1.00	16.16	C
ATOM	1381	CB	PHE	B2062	19.972	-3.664	27.244	1.00	18.34	C
ATOM	1382	CG	PHE	B2062	21.173	-3.954	28.110	1.00	20.05	C
ATOM	1383	CD1	PHE	B2062	21.180	-5.055	28.972	1.00	20.65	C
ATOM	1384	CD2	PHE	B2062	22.311	-3.158	28.030	1.00	20.37	C
ATOM	1385	CE1	PHE	B2062	22.304	-5.358	29.737	1.00	20.45	C
ATOM	1386	CE2	PHE	B2062	23.450	-3.453	28.796	1.00	21.28	C
ATOM	1387	CZ	PHE	B2062	23.443	-4.552	29.647	1.00	20.21	C
ATOM	1388	C	PHE	B2062	20.210	-5.930	26.195	1.00	17.69	C
ATOM	1389	O	PHE	B2062	21.297	-6.455	25.933	1.00	17.00	O

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ATOM	1390	N	SER	B2063	19.203	-6.608	26.730	1.00	18.58	N
ATOM	1391	CA	SER	B2063	19.336	-8.033	27.016	1.00	19.54	C
ATOM	1392	CB	SER	B2063	18.025	-8.584	27.565	1.00	19.74	C
ATOM	1393	OG	SER	B2063	17.710	-7.950	28.793	1.00	22.28	O
ATOM	1394	C	SER	B2063	19.733	-8.789	25.753	1.00	20.63	C
ATOM	1395	O	SER	B2063	20.574	-9.682	25.803	1.00	18.71	O
ATOM	1396	N	LYS	B2064	19.128	-8.430	24.620	1.00	19.41	N
ATOM	1397	CA	LYS	B2064	19.457	-9.088	23.362	1.00	20.24	C
ATOM	1398	CB	LYS	B2064	18.447	-8.705	22.276	1.00	21.74	C
ATOM	1399	CG	LYS	B2064	17.036	-9.246	22.553	1.00	21.35	C
ATOM	1400	CD	LYS	B2064	16.007	-8.785	21.525	1.00	21.53	C
ATOM	1401	CE	LYS	B2064	16.378	-9.233	20.116	1.00	19.60	C
ATOM	1402	NZ	LYS	B2064	15.400	-8.764	19.091	1.00	19.68	N
ATOM	1403	C	LYS	B2064	20.875	-8.709	22.946	1.00	20.67	C
ATOM	1404	O	LYS	B2064	21.573	-9.498	22.310	1.00	21.49	O
ATOM	1405	N	ALA	B2065	21.303	-7.502	23.308	1.00	17.85	N
ATOM	1406	CA	ALA	B2065	22.660	-7.059	22.995	1.00	19.57	C
ATOM	1407	CB	ALA	B2065	22.826	-5.576	23.323	1.00	15.70	C
ATOM	1408	C	ALA	B2065	23.647	-7.892	23.820	1.00	20.80	C
ATOM	1409	O	ALA	B2065	24.793	-8.096	23.414	1.00	18.12	O
ATOM	1410	N	MET	B2066	23.199	-8.359	24.985	1.00	22.49	N
ATOM	1411	CA	MET	B2066	24.039	-9.187	25.849	1.00	27.36	C
ATOM	1412	CB	MET	B2066	23.608	-9.069	27.310	1.00	27.69	C
ATOM	1413	CG	MET	B2066	23.933	-7.749	27.971	1.00	30.93	C
ATOM	1414	SD	MET	B2066	25.678	-7.548	28.342	1.00	35.00	S
ATOM	1415	CE	MET	B2066	25.840	-8.691	29.727	1.00	35.63	C
ATOM	1416	C	MET	B2066	23.927	-10.646	25.416	1.00	28.77	C
ATOM	1417	O	MET	B2066	24.570	-11.517	25.990	1.00	29.95	O
ATOM	1418	N	GLY	B2067	23.095	-10.906	24.411	1.00	30.61	N
ATOM	1419	CA	GLY	B2067	22.927	-12.266	23.924	1.00	32.14	C
ATOM	1420	C	GLY	B2067	21.816	-13.073	24.577	1.00	33.83	C
ATOM	1421	O	GLY	B2067	21.728	-14.282	24.353	1.00	35.17	O
ATOM	1422	N	THR	B2068	20.964	-12.425	25.369	1.00	33.49	N
ATOM	1423	CA	THR	B2068	19.870	-13.124	26.048	1.00	35.61	C
ATOM	1424	CB	THR	B2068	20.225	-13.393	27.528	1.00	37.06	C
ATOM	1425	OG1	THR	B2068	20.480	-12.149	28.194	1.00	37.62	O
ATOM	1426	CG2	THR	B2068	21.461	-14.274	27.622	1.00	40.72	C
ATOM	1427	C	THR	B2068	18.519	-12.396	26.008	1.00	34.51	C
ATOM	1428	O	THR	B2068	18.212	-11.679	25.054	1.00	34.74	O
ATOM	1429	N	GLY	B2069	17.715	-12.598	27.051	1.00	34.71	N
ATOM	1430	CA	GLY	B2069	16.403	-11.970	27.132	1.00	33.79	C
ATOM	1431	C	GLY	B2069	16.195	-11.248	28.452	1.00	33.36	C
ATOM	1432	O	GLY	B2069	16.823	-11.590	29.455	1.00	32.35	O
ATOM	1433	N	ILE	B2070	15.300	-10.263	28.467	1.00	33.38	N
ATOM	1434	CA	ILE	B2070	15.059	-9.487	29.680	1.00	34.29	C
ATOM	1435	CB	ILE	B2070	14.122	-8.283	29.401	1.00	33.36	C
ATOM	1436	CG2	ILE	B2070	12.761	-8.768	28.904	1.00	35.55	C
ATOM	1437	CG1	ILE	B2070	13.966	-7.446	30.672	1.00	32.13	C
ATOM	1438	CD1	ILE	B2070	15.277	-6.991	31.269	1.00	28.50	C
ATOM	1439	C	ILE	B2070	14.514	-10.295	30.856	1.00	35.39	C
ATOM	1440	O	ILE	B2070	14.868	-10.039	32.008	1.00	35.52	O
ATOM	1441	N	SER	B2071	13.666	-11.276	30.572	1.00	37.28	N
ATOM	1442	CA	SER	B2071	13.104	-12.104	31.630	1.00	39.77	C
ATOM	1443	CB	SER	B2071	12.020	-13.025	31.066	1.00	42.43	C
ATOM	1444	OG	SER	B2071	11.433	-13.795	32.102	1.00	46.76	O
ATOM	1445	C	SER	B2071	14.189	-12.947	32.299	1.00	40.07	C
ATOM	1446	O	SER	B2071	14.024	-13.402	33.428	1.00	39.81	O

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ATOM	1447	N	LYS	B2072	15.299	-13.154	31.596	1.00	39.77	N
ATOM	1448	CA	LYS	B2072	16.403	-13.940	32.132	1.00	39.15	C
ATOM	1449	CB	LYS	B2072	17.115	-14.689	31.007	1.00	40.68	C
ATOM	1450	CG	LYS	B2072	16.225	-15.656	30.252	1.00	43.38	C
ATOM	1451	CD	LYS	B2072	16.996	-16.371	29.151	1.00	44.69	C
ATOM	1452	CE	LYS	B2072	16.070	-17.260	28.342	1.00	46.81	C
ATOM	1453	NZ	LYS	B2072	15.337	-18.225	29.214	1.00	47.85	N
ATOM	1454	C	LYS	B2072	17.396	-13.039	32.842	1.00	38.30	C
ATOM	1455	O	LYS	B2072	17.952	-13.401	33.879	1.00	38.50	O
ATOM	1456	N	LEU	B2073	17.613	-11.860	32.269	1.00	36.74	N
ATOM	1457	CA	LEU	B2073	18.540	-10.883	32.821	1.00	34.89	C
ATOM	1458	CB	LEU	B2073	18.817	-9.803	31.766	1.00	35.18	C
ATOM	1459	CG	LEU	B2073	20.010	-8.856	31.910	1.00	35.71	C
ATOM	1460	CD1	LEU	B2073	19.804	-7.943	33.107	1.00	37.71	C
ATOM	1461	CD2	LEU	B2073	21.296	-9.661	32.050	1.00	36.74	C
ATOM	1462	C	LEU	B2073	17.961	-10.259	34.098	1.00	34.21	C
ATOM	1463	O	LEU	B2073	18.683	-10.044	35.071	1.00	32.72	O
ATOM	1464	N	GLY	B2074	16.658	-9.982	34.090	1.00	33.08	N
ATOM	1465	CA	GLY	B2074	16.014	-9.383	35.247	1.00	32.12	C
ATOM	1466	C	GLY	B2074	15.762	-7.897	35.053	1.00	30.96	C
ATOM	1467	O	GLY	B2074	16.702	-7.127	34.871	1.00	31.73	O
ATOM	1468	N	PHE	B2075	14.497	-7.489	35.095	1.00	29.97	N
ATOM	1469	CA	PHE	B2075	14.139	-6.083	34.913	1.00	30.52	C
ATOM	1470	CB	PHE	B2075	12.620	-5.896	34.973	1.00	32.55	C
ATOM	1471	CG	PHE	B2075	11.880	-6.511	33.822	1.00	33.89	C
ATOM	1472	CD1	PHE	B2075	11.474	-7.843	33.868	1.00	35.06	C
ATOM	1473	CD2	PHE	B2075	11.578	-5.755	32.693	1.00	34.72	C
ATOM	1474	CE1	PHE	B2075	10.774	-8.412	32.806	1.00	35.34	C
ATOM	1475	CE2	PHE	B2075	10.879	-6.316	31.623	1.00	34.77	C
ATOM	1476	CZ	PHE	B2075	10.477	-7.646	31.681	1.00	34.64	C
ATOM	1477	C	PHE	B2075	14.769	-5.146	35.934	1.00	29.45	C
ATOM	1478	O	PHE	B2075	15.159	-4.025	35.599	1.00	30.37	O
ATOM	1479	N	GLN	B2076	14.867	-5.607	37.177	1.00	28.05	N
ATOM	1480	CA	GLN	B2076	15.417	-4.796	38.259	1.00	27.24	C
ATOM	1481	CB	GLN	B2076	15.043	-5.420	39.607	1.00	27.56	C
ATOM	1482	CG	GLN	B2076	13.539	-5.436	39.859	1.00	27.74	C
ATOM	1483	CD	GLN	B2076	12.929	-4.041	39.834	1.00	30.00	C
ATOM	1484	OE1	GLN	B2076	11.896	-3.807	39.193	1.00	31.13	O
ATOM	1485	NE2	GLN	B2076	13.563	-3.107	40.536	1.00	28.51	N
ATOM	1486	C	GLN	B2076	16.920	-4.538	38.198	1.00	26.61	C
ATOM	1487	O	GLN	B2076	17.430	-3.698	38.935	1.00	25.98	O
ATOM	1488	N	ASP	B2077	17.621	-5.251	37.320	1.00	26.64	N
ATOM	1489	CA	ASP	B2077	19.062	-5.084	37.160	1.00	27.59	C
ATOM	1490	CB	ASP	B2077	19.723	-6.426	36.847	1.00	32.09	C
ATOM	1491	CG	ASP	B2077	19.749	-7.352	38.041	1.00	35.66	C
ATOM	1492	OD1	ASP	B2077	18.670	-7.841	38.440	1.00	39.93	O
ATOM	1493	OD2	ASP	B2077	20.850	-7.584	38.586	1.00	40.87	O
ATOM	1494	C	ASP	B2077	19.403	-4.087	36.054	1.00	26.77	C
ATOM	1495	O	ASP	B2077	20.571	-3.825	35.779	1.00	25.66	O
ATOM	1496	N	LEU	B2078	18.375	-3.539	35.420	1.00	24.12	N
ATOM	1497	CA	LEU	B2078	18.570	-2.571	34.356	1.00	23.25	C
ATOM	1498	CB	LEU	B2078	18.058	-3.118	33.018	1.00	23.97	C
ATOM	1499	CG	LEU	B2078	18.750	-4.370	32.475	1.00	24.92	C
ATOM	1500	CD1	LEU	B2078	17.987	-4.914	31.276	1.00	23.04	C
ATOM	1501	CD2	LEU	B2078	20.180	-4.021	32.089	1.00	26.74	C
ATOM	1502	C	LEU	B2078	17.795	-1.321	34.702	1.00	23.29	C
ATOM	1503	O	LEU	B2078	16.669	-1.390	35.196	1.00	23.17	O

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ATOM	1504	N	GLU	B2079	18.397	-0.173	34.446	1.00	21.42	N
ATOM	1505	CA	GLU	B2079	17.724	1.075	34.716	1.00	21.45	C
ATOM	1506	CB	GLU	B2079	18.192	1.666	36.036	1.00	22.77	C
ATOM	1507	CG	GLU	B2079	17.346	2.835	36.477	1.00	24.03	C
ATOM	1508	CD	GLU	B2079	17.726	3.340	37.848	1.00	25.73	C
ATOM	1509	OE1	GLU	B2079	18.797	3.972	37.976	1.00	26.42	O
ATOM	1510	OE2	GLU	B2079	16.950	3.099	38.798	1.00	27.63	O
ATOM	1511	C	GLU	B2079	18.014	2.055	33.600	1.00	20.55	C
ATOM	1512	O	GLU	B2079	19.167	2.241	33.203	1.00	20.96	O
ATOM	1513	N	VAL	B2080	16.954	2.666	33.095	1.00	18.00	N
ATOM	1514	CA	VAL	B2080	17.055	3.648	32.033	1.00	18.55	C
ATOM	1515	CB	VAL	B2080	16.268	3.211	30.769	1.00	16.14	C
ATOM	1516	CG1	VAL	B2080	16.429	4.262	29.686	1.00	16.12	C
ATOM	1517	CG2	VAL	B2080	16.755	1.849	30.276	1.00	14.67	C
ATOM	1518	C	VAL	B2080	16.442	4.948	32.549	1.00	19.85	C
ATOM	1519	O	VAL	B2080	15.234	5.019	32.805	1.00	19.59	O
ATOM	1520	N	LEU	B2081	17.279	5.966	32.708	1.00	20.39	N
ATOM	1521	CA	LEU	B2081	16.825	7.271	33.176	1.00	21.24	C
ATOM	1522	CB	LEU	B2081	17.644	7.716	34.394	1.00	21.31	C
ATOM	1523	CG	LEU	B2081	17.683	6.758	35.593	1.00	22.71	C
ATOM	1524	CD1	LEU	B2081	18.641	7.299	36.661	1.00	23.10	C
ATOM	1525	CD2	LEU	B2081	16.280	6.594	36.165	1.00	22.25	C
ATOM	1526	C	LEU	B2081	17.027	8.259	32.040	1.00	22.16	C
ATOM	1527	O	LEU	B2081	17.421	7.882	30.934	1.00	22.05	O
ATOM	1528	N	ASN	B2082	16.755	9.526	32.309	1.00	22.54	N
ATOM	1529	CA	ASN	B2082	16.933	10.561	31.303	1.00	24.30	C
ATOM	1530	CB	ASN	B2082	15.598	11.247	31.022	1.00	25.64	C
ATOM	1531	CG	ASN	B2082	14.657	10.371	30.207	1.00	27.22	C
ATOM	1532	OD1	ASN	B2082	14.779	10.280	28.982	1.00	28.88	O
ATOM	1533	ND2	ASN	B2082	13.729	9.710	30.883	1.00	24.27	N
ATOM	1534	C	ASN	B2082	17.945	11.555	31.840	1.00	25.00	C
ATOM	1535	O	ASN	B2082	17.860	11.958	33.001	1.00	23.46	O
ATOM	1536	N	ASN	B2083	18.913	11.939	31.010	1.00	25.22	N
ATOM	1537	CA	ASN	B2083	19.920	12.890	31.454	1.00	25.69	C
ATOM	1538	CB	ASN	B2083	21.215	12.744	30.641	1.00	25.99	C
ATOM	1539	CG	ASN	B2083	21.013	12.961	29.153	1.00	27.46	C
ATOM	1540	OD1	ASN	B2083	20.173	13.758	28.729	1.00	25.62	O
ATOM	1541	ND2	ASN	B2083	21.811	12.265	28.348	1.00	27.23	N
ATOM	1542	C	ASN	B2083	19.410	14.330	31.397	1.00	26.79	C
ATOM	1543	O	ASN	B2083	18.216	14.571	31.215	1.00	25.77	O
ATOM	1544	N	GLU	B2084	20.322	15.281	31.559	1.00	29.60	N
ATOM	1545	CA	GLU	B2084	19.982	16.701	31.563	1.00	31.78	C
ATOM	1546	CB	GLU	B2084	21.238	17.539	31.827	1.00	33.94	C
ATOM	1547	CG	GLU	B2084	22.148	16.960	32.896	1.00	39.23	C
ATOM	1548	CD	GLU	B2084	22.774	15.640	32.470	1.00	41.35	C
ATOM	1549	OE1	GLU	B2084	23.642	15.652	31.567	1.00	42.45	O
ATOM	1550	OE2	GLU	B2084	22.390	14.588	33.030	1.00	42.21	O
ATOM	1551	C	GLU	B2084	19.351	17.153	30.253	1.00	30.81	C
ATOM	1552	O	GLU	B2084	18.472	18.013	30.242	1.00	29.26	O
ATOM	1553	N	ARG	B2085	19.808	16.573	29.148	1.00	30.86	N
ATOM	1554	CA	ARG	B2085	19.291	16.940	27.838	1.00	31.05	C
ATOM	1555	CB	ARG	B2085	20.364	16.716	26.775	1.00	33.27	C
ATOM	1556	CG	ARG	B2085	21.598	17.554	27.005	1.00	35.81	C
ATOM	1557	CD	ARG	B2085	22.636	17.335	25.928	1.00	38.24	C
ATOM	1558	NE	ARG	B2085	23.735	18.286	26.060	1.00	41.03	N
ATOM	1559	CZ	ARG	B2085	24.544	18.349	27.110	1.00	42.41	C
ATOM	1560	NH1	ARG	B2085	24.381	17.515	28.128	1.00	43.26	N

ATOM	1561	NH2	ARG	B2085	25.523	19.239	27.138	1.00	44.30	N
ATOM	1562	C	ARG	B2085	18.024	16.190	27.465	1.00	30.14	C
ATOM	1563	O	ARG	B2085	17.450	16.432	26.408	1.00	31.11	O
ATOM	1564	N	GLY	B2086	17.593	15.273	28.326	1.00	29.20	N
ATOM	1565	CA	GLY	B2086	16.371	14.530	28.057	1.00	27.93	C
ATOM	1566	C	GLY	B2086	16.531	13.222	27.304	1.00	26.69	C
ATOM	1567	O	GLY	B2086	15.541	12.581	26.952	1.00	27.22	O
ATOM	1568	N	ALA	B2087	17.770	12.818	27.056	1.00	24.98	N
ATOM	1569	CA	ALA	B2087	18.033	11.582	26.340	1.00	23.11	C
ATOM	1570	CB	ALA	B2087	19.358	11.692	25.589	1.00	24.73	C
ATOM	1571	C	ALA	B2087	18.065	10.369	27.269	1.00	22.69	C
ATOM	1572	O	ALA	B2087	18.611	10.431	28.370	1.00	22.81	O
ATOM	1573	N	PRO	B2088	17.481	9.242	26.833	1.00	22.85	N
ATOM	1574	CD	PRO	B2088	16.722	9.014	25.588	1.00	23.63	C
ATOM	1575	CA	PRO	B2088	17.485	8.039	27.674	1.00	21.17	C
ATOM	1576	CB	PRO	B2088	16.471	7.134	26.982	1.00	22.95	C
ATOM	1577	CG	PRO	B2088	16.650	7.489	25.528	1.00	24.16	C
ATOM	1578	C	PRO	B2088	18.879	7.416	27.716	1.00	20.46	C
ATOM	1579	O	PRO	B2088	19.584	7.407	26.712	1.00	18.12	O
ATOM	1580	N	TYR	B2089	19.280	6.906	28.878	1.00	19.76	N
ATOM	1581	CA	TYR	B2089	20.593	6.275	29.019	1.00	19.97	C
ATOM	1582	CB	TYR	B2089	21.660	7.337	29.324	1.00	20.30	C
ATOM	1583	CG	TYR	B2089	21.605	7.850	30.743	1.00	21.25	C
ATOM	1584	CD1	TYR	B2089	22.471	7.347	31.719	1.00	23.06	C
ATOM	1585	CE1	TYR	B2089	22.386	7.765	33.046	1.00	22.62	C
ATOM	1586	CD2	TYR	B2089	20.651	8.793	31.128	1.00	21.67	C
ATOM	1587	CE2	TYR	B2089	20.557	9.218	32.454	1.00	23.51	C
ATOM	1588	CZ	TYR	B2089	21.429	8.693	33.404	1.00	22.23	C
ATOM	1589	OH	TYR	B2089	21.327	9.078	34.715	1.00	23.91	O
ATOM	1590	C	TYR	B2089	20.547	5.246	30.148	1.00	18.84	C
ATOM	1591	O	TYR	B2089	19.738	5.356	31.066	1.00	16.92	O
ATOM	1592	N	PHE	B2090	21.408	4.237	30.076	1.00	19.96	N
ATOM	1593	CA	PHE	B2090	21.432	3.218	31.116	1.00	20.18	C
ATOM	1594	CB	PHE	B2090	22.015	1.906	30.588	1.00	18.86	C
ATOM	1595	CG	PHE	B2090	21.031	1.078	29.813	1.00	17.77	C
ATOM	1596	CD1	PHE	B2090	20.843	1.282	28.452	1.00	18.34	C
ATOM	1597	CD2	PHE	B2090	20.276	0.102	30.455	1.00	17.66	C
ATOM	1598	CE1	PHE	B2090	19.915	0.523	27.737	1.00	16.58	C
ATOM	1599	CE2	PHE	B2090	19.344	-0.666	29.751	1.00	16.83	C
ATOM	1600	CZ	PHE	B2090	19.166	-0.453	28.393	1.00	18.42	C
ATOM	1601	C	PHE	B2090	22.249	3.683	32.307	1.00	21.96	C
ATOM	1602	O	PHE	B2090	23.464	3.837	32.215	1.00	21.17	O
ATOM	1603	N	SER	B2091	21.569	3.916	33.423	1.00	21.79	N
ATOM	1604	CA	SER	B2091	22.233	4.346	34.642	1.00	23.26	C
ATOM	1605	CB	SER	B2091	21.269	5.171	35.498	1.00	24.51	C
ATOM	1606	OG	SER	B2091	20.046	4.473	35.689	1.00	27.15	O
ATOM	1607	C	SER	B2091	22.676	3.101	35.406	1.00	24.05	C
ATOM	1608	O	SER	B2091	23.572	3.158	36.241	1.00	22.27	O
ATOM	1609	N	GLN	B2092	22.039	1.974	35.100	1.00	24.23	N
ATOM	1610	CA	GLN	B2092	22.343	0.702	35.750	1.00	26.68	C
ATOM	1611	CB	GLN	B2092	21.324	0.420	36.858	1.00	30.19	C
ATOM	1612	CG	GLN	B2092	21.738	0.888	38.236	1.00	36.96	C
ATOM	1613	CD	GLN	B2092	22.791	-0.013	38.846	1.00	41.69	C
ATOM	1614	OE1	GLN	B2092	23.923	-0.086	38.360	1.00	44.08	O
ATOM	1615	NE2	GLN	B2092	22.419	-0.719	39.914	1.00	43.86	N
ATOM	1616	C	GLN	B2092	22.318	-0.450	34.755	1.00	25.68	C
ATOM	1617	O	GLN	B2092	21.350	-0.628	34.015	1.00	25.64	O

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ATOM	1618	N	ALA	B2093	23.378	-1.243	34.750	1.00	24.06	N
ATOM	1619	CA	ALA	B2093	23.451	-2.379	33.845	1.00	24.55	C
ATOM	1620	CB	ALA	B2093	23.544	-1.896	32.401	1.00	23.95	C
ATOM	1621	C	ALA	B2093	24.654	-3.240	34.182	1.00	24.42	C
ATOM	1622	O	ALA	B2093	25.669	-2.737	34.662	1.00	23.73	O
ATOM	1623	N	PRO	B2094	24.542	-4.560	33.958	1.00	24.28	N
ATOM	1624	CD	PRO	B2094	23.286	-5.266	33.634	1.00	24.45	C
ATOM	1625	CA	PRO	B2094	25.625	-5.509	34.228	1.00	24.13	C
ATOM	1626	CB	PRO	B2094	24.882	-6.827	34.404	1.00	24.53	C
ATOM	1627	CG	PRO	B2094	23.752	-6.693	33.412	1.00	25.43	C
ATOM	1628	C	PRO	B2094	26.575	-5.532	33.033	1.00	25.18	C
ATOM	1629	O	PRO	B2094	26.687	-6.538	32.330	1.00	27.39	O
ATOM	1630	N	PHE	B2095	27.237	-4.406	32.795	1.00	25.59	N
ATOM	1631	CA	PHE	B2095	28.166	-4.276	31.674	1.00	26.28	C
ATOM	1632	CB	PHE	B2095	27.394	-3.937	30.392	1.00	26.01	C
ATOM	1633	CG	PHE	B2095	28.264	-3.808	29.176	1.00	25.16	C
ATOM	1634	CD1	PHE	B2095	28.289	-2.622	28.448	1.00	23.33	C
ATOM	1635	CD2	PHE	B2095	29.070	-4.864	28.766	1.00	24.13	C
ATOM	1636	CE1	PHE	B2095	29.106	-2.488	27.333	1.00	23.09	C
ATOM	1637	CE2	PHE	B2095	29.890	-4.739	27.652	1.00	24.48	C
ATOM	1638	CZ	PHE	B2095	29.906	-3.542	26.933	1.00	21.85	C
ATOM	1639	C	PHE	B2095	29.157	-3.168	32.000	1.00	25.62	C
ATOM	1640	O	PHE	B2095	28.768	-2.080	32.413	1.00	26.70	O
ATOM	1641	N	SER	B2096	30.438	-3.441	31.804	1.00	26.81	N
ATOM	1642	CA	SER	B2096	31.472	-2.466	32.122	1.00	27.94	C
ATOM	1643	CB	SER	B2096	32.750	-3.203	32.531	1.00	27.66	C
ATOM	1644	OG	SER	B2096	33.144	-4.111	31.518	1.00	29.62	O
ATOM	1645	C	SER	B2096	31.787	-1.469	31.007	1.00	27.71	C
ATOM	1646	O	SER	B2096	32.430	-0.452	31.249	1.00	27.75	O
ATOM	1647	N	GLY	B2097	31.325	-1.746	29.792	1.00	26.55	N
ATOM	1648	CA	GLY	B2097	31.611	-0.847	28.690	1.00	23.99	C
ATOM	1649	C	GLY	B2097	30.611	0.274	28.499	1.00	23.68	C
ATOM	1650	O	GLY	B2097	29.869	0.639	29.413	1.00	22.73	O
ATOM	1651	N	LYS	B2098	30.606	0.838	27.299	1.00	23.32	N
ATOM	1652	CA	LYS	B2098	29.682	1.912	26.975	1.00	23.52	C
ATOM	1653	CB	LYS	B2098	30.323	2.896	25.995	1.00	25.66	C
ATOM	1654	CG	LYS	B2098	31.546	3.599	26.562	1.00	29.30	C
ATOM	1655	CD	LYS	B2098	32.162	4.532	25.545	1.00	31.81	C
ATOM	1656	CE	LYS	B2098	33.364	5.247	26.128	1.00	35.72	C
ATOM	1657	NZ	LYS	B2098	33.970	6.194	25.154	1.00	38.45	N
ATOM	1658	C	LYS	B2098	28.438	1.302	26.356	1.00	21.94	C
ATOM	1659	O	LYS	B2098	28.518	0.350	25.570	1.00	20.64	O
ATOM	1660	N	ILE	B2099	27.294	1.862	26.721	1.00	20.44	N
ATOM	1661	CA	ILE	B2099	26.008	1.400	26.236	1.00	19.38	C
ATOM	1662	CB	ILE	B2099	25.109	1.012	27.421	1.00	19.92	C
ATOM	1663	CG2	ILE	B2099	23.804	0.423	26.919	1.00	20.26	C
ATOM	1664	CG1	ILE	B2099	25.839	-0.008	28.302	1.00	19.45	C
ATOM	1665	CD1	ILE	B2099	25.193	-0.230	29.663	1.00	21.98	C
ATOM	1666	C	ILE	B2099	25.352	2.529	25.444	1.00	19.88	C
ATOM	1667	O	ILE	B2099	24.950	3.546	26.011	1.00	19.12	O
ATOM	1668	N	TRP	B2100	25.267	2.352	24.129	1.00	19.02	N
ATOM	1669	CA	TRP	B2100	24.662	3.351	23.265	1.00	17.64	C
ATOM	1670	CB	TRP	B2100	25.430	3.431	21.951	1.00	19.81	C
ATOM	1671	CG	TRP	B2100	26.840	3.861	22.165	1.00	20.97	C
ATOM	1672	CD2	TRP	B2100	27.295	5.202	22.383	1.00	21.20	C
ATOM	1673	CE2	TRP	B2100	28.680	5.137	22.640	1.00	20.87	C
ATOM	1674	CE3	TRP	B2100	26.661	6.454	22.393	1.00	22.40	C

ATOM	1675	CD1	TRP	B2100	27.938	3.059	22.289	1.00	22.80	C
ATOM	1676	NE1	TRP	B2100	29.050	3.818	22.576	1.00	21.53	N
ATOM	1677	CZ2	TRP	B2100	29.448	6.279	22.901	1.00	21.01	C
ATOM	1678	CZ3	TRP	B2100	27.425	7.591	22.654	1.00	19.76	C
ATOM	1679	CH2	TRP	B2100	28.803	7.492	22.905	1.00	20.24	C
ATOM	1680	C	TRP	B2100	23.207	2.987	23.023	1.00	17.98	C
ATOM	1681	O	TRP	B2100	22.889	2.033	22.308	1.00	19.71	O
ATOM	1682	N	LEU	B2101	22.323	3.761	23.632	1.00	16.57	N
ATOM	1683	CA	LEU	B2101	20.897	3.527	23.524	1.00	15.94	C
ATOM	1684	CB	LEU	B2101	20.292	3.364	24.925	1.00	14.34	C
ATOM	1685	CG	LEU	B2101	18.756	3.387	25.013	1.00	15.83	C
ATOM	1686	CD1	LEU	B2101	18.195	2.073	24.455	1.00	11.99	C
ATOM	1687	CD2	LEU	B2101	18.324	3.555	26.467	1.00	14.03	C
ATOM	1688	C	LEU	B2101	20.142	4.632	22.810	1.00	16.46	C
ATOM	1689	O	LEU	B2101	20.464	5.807	22.937	1.00	14.73	O
ATOM	1690	N	SER	B2102	19.133	4.232	22.047	1.00	17.13	N
ATOM	1691	CA	SER	B2102	18.260	5.182	21.380	1.00	16.87	C
ATOM	1692	CB	SER	B2102	18.683	5.449	19.945	1.00	17.85	C
ATOM	1693	OG	SER	B2102	17.856	6.473	19.405	1.00	18.12	O
ATOM	1694	C	SER	B2102	16.866	4.577	21.393	1.00	15.72	C
ATOM	1695	O	SER	B2102	16.706	3.368	21.230	1.00	14.46	O
ATOM	1696	N	ILE	B2103	15.863	5.414	21.613	1.00	15.13	N
ATOM	1697	CA	ILE	B2103	14.478	4.948	21.646	1.00	17.16	C
ATOM	1698	CB	ILE	B2103	13.897	5.031	23.070	1.00	17.86	C
ATOM	1699	CG2	ILE	B2103	12.439	4.560	23.063	1.00	17.77	C
ATOM	1700	CG1	ILE	B2103	14.765	4.215	24.036	1.00	18.09	C
ATOM	1701	CD1	ILE	B2103	14.406	4.396	25.497	1.00	17.05	C
ATOM	1702	C	ILE	B2103	13.645	5.852	20.749	1.00	17.44	C
ATOM	1703	O	ILE	B2103	13.886	7.055	20.684	1.00	17.70	O
ATOM	1704	N	SER	B2104	12.675	5.275	20.053	1.00	17.76	N
ATOM	1705	CA	SER	B2104	11.803	6.065	19.187	1.00	19.81	C
ATOM	1706	CB	SER	B2104	12.355	6.117	17.759	1.00	19.27	C
ATOM	1707	OG	SER	B2104	11.570	6.964	16.930	1.00	20.56	O
ATOM	1708	C	SER	B2104	10.426	5.432	19.189	1.00	20.64	C
ATOM	1709	O	SER	B2104	10.290	4.213	19.338	1.00	22.59	O
ATOM	1710	N	HIS	B2105	9.396	6.246	19.020	1.00	20.13	N
ATOM	1711	CA	HIS	B2105	8.055	5.698	19.028	1.00	22.93	C
ATOM	1712	CB	HIS	B2105	7.456	5.812	20.432	1.00	23.19	C
ATOM	1713	CG	HIS	B2105	7.277	7.227	20.890	1.00	24.84	C
ATOM	1714	CD2	HIS	B2105	6.221	8.069	20.785	1.00	26.28	C
ATOM	1715	ND1	HIS	B2105	8.284	7.950	21.490	1.00	26.53	N
ATOM	1716	CE1	HIS	B2105	7.858	9.176	21.737	1.00	25.54	C
ATOM	1717	NE2	HIS	B2105	6.609	9.275	21.318	1.00	26.28	N
ATOM	1718	C	HIS	B2105	7.116	6.375	18.050	1.00	21.93	C
ATOM	1719	O	HIS	B2105	7.395	7.460	17.554	1.00	21.72	O
ATOM	1720	N	THR	B2106	6.016	5.687	17.769	1.00	23.48	N
ATOM	1721	CA	THR	B2106	4.941	6.183	16.919	1.00	25.16	C
ATOM	1722	CB	THR	B2106	4.605	5.242	15.755	1.00	25.21	C
ATOM	1723	OG1	THR	B2106	4.222	3.965	16.278	1.00	25.03	O
ATOM	1724	CG2	THR	B2106	5.791	5.089	14.823	1.00	25.52	C
ATOM	1725	C	THR	B2106	3.775	6.121	17.894	1.00	25.80	C
ATOM	1726	O	THR	B2106	3.978	5.862	19.081	1.00	24.98	O
ATOM	1727	N	ASP	B2107	2.559	6.329	17.406	1.00	25.90	N
ATOM	1728	CA	ASP	B2107	1.397	6.284	18.285	1.00	27.49	C
ATOM	1729	CB	ASP	B2107	0.169	6.862	17.574	0.05	26.86	C
ATOM	1730	CG	ASP	B2107	0.127	8.380	17.621	0.05	26.92	C
ATOM	1731	OD1	ASP	B2107	1.090	9.023	17.157	0.05	27.01	O

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ATOM	1732	OD2	ASP	B2107	-0.874	8.930	18.125	0.05	26.97	O
ATOM	1733	C	ASP	B2107	1.085	4.877	18.788	1.00	27.36	C
ATOM	1734	O	ASP	B2107	0.493	4.717	19.854	1.00	29.78	O
ATOM	1735	N	GLN	B2108	1.482	3.858	18.032	1.00	25.07	N
ATOM	1736	CA	GLN	B2108	1.207	2.483	18.433	1.00	25.09	C
ATOM	1737	CB	GLN	B2108	0.523	1.736	17.293	1.00	26.05	C
ATOM	1738	CG	GLN	B2108	-0.728	2.395	16.780	1.00	29.37	C
ATOM	1739	CD	GLN	B2108	-1.145	1.827	15.445	1.00	31.53	C
ATOM	1740	OE1	GLN	B2108	-0.362	1.822	14.492	1.00	31.44	O
ATOM	1741	NE2	GLN	B2108	-2.379	1.345	15.363	1.00	31.86	N
ATOM	1742	C	GLN	B2108	2.412	1.658	18.876	1.00	24.58	C
ATOM	1743	O	GLN	B2108	2.251	0.710	19.650	1.00	22.64	O
ATOM	1744	N	PHE	B2109	3.606	2.000	18.386	1.00	23.20	N
ATOM	1745	CA	PHE	B2109	4.800	1.229	18.725	1.00	22.81	C
ATOM	1746	CB	PHE	B2109	5.309	0.456	17.501	1.00	24.68	C
ATOM	1747	CG	PHE	B2109	4.236	-0.250	16.721	1.00	26.08	C
ATOM	1748	CD1	PHE	B2109	3.701	0.329	15.576	1.00	26.47	C
ATOM	1749	CD2	PHE	B2109	3.783	-1.505	17.110	1.00	27.02	C
ATOM	1750	CE1	PHE	B2109	2.729	-0.336	14.825	1.00	28.36	C
ATOM	1751	CE2	PHE	B2109	2.810	-2.177	16.366	1.00	27.54	C
ATOM	1752	CZ	PHE	B2109	2.287	-1.592	15.224	1.00	28.20	C
ATOM	1753	C	PHE	B2109	5.980	2.037	19.260	1.00	21.56	C
ATOM	1754	O	PHE	B2109	6.096	3.233	19.027	1.00	22.22	O
ATOM	1755	N	VAL	B2110	6.872	1.358	19.969	1.00	21.04	N
ATOM	1756	CA	VAL	B2110	8.073	2.005	20.485	1.00	20.21	C
ATOM	1757	CB	VAL	B2110	7.982	2.279	22.006	1.00	19.74	C
ATOM	1758	CG1	VAL	B2110	7.649	1.001	22.751	1.00	21.12	C
ATOM	1759	CG2	VAL	B2110	9.307	2.861	22.504	1.00	21.25	C
ATOM	1760	C	VAL	B2110	9.230	1.063	20.197	1.00	20.24	C
ATOM	1761	O	VAL	B2110	9.160	-0.128	20.523	1.00	21.27	O
ATOM	1762	N	THR	B2111	10.276	1.580	19.557	1.00	19.29	N
ATOM	1763	CA	THR	B2111	11.440	0.763	19.235	1.00	20.44	C
ATOM	1764	CB	THR	B2111	11.759	0.788	17.725	1.00	22.75	C
ATOM	1765	OG1	THR	B2111	12.116	2.120	17.337	1.00	27.12	O
ATOM	1766	CG2	THR	B2111	10.550	0.353	16.911	1.00	26.61	C
ATOM	1767	C	THR	B2111	12.668	1.270	19.982	1.00	19.21	C
ATOM	1768	O	THR	B2111	12.780	2.455	20.278	1.00	18.06	O
ATOM	1769	N	ALA	B2112	13.581	0.353	20.280	1.00	18.16	N
ATOM	1770	CA	ALA	B2112	14.810	0.675	20.988	1.00	17.59	C
ATOM	1771	CB	ALA	B2112	14.715	0.231	22.442	1.00	14.54	C
ATOM	1772	C	ALA	B2112	15.951	-0.052	20.292	1.00	17.15	C
ATOM	1773	O	ALA	B2112	15.776	-1.163	19.788	1.00	15.26	O
ATOM	1774	N	SER	B2113	17.111	0.588	20.258	1.00	16.75	N
ATOM	1775	CA	SER	B2113	18.297	0.015	19.631	1.00	17.12	C
ATOM	1776	CB	SER	B2113	18.574	0.705	18.287	1.00	17.55	C
ATOM	1777	OG	SER	B2113	19.674	0.112	17.603	1.00	19.24	O
ATOM	1778	C	SER	B2113	19.470	-0.227	20.588	1.00	16.82	C
ATOM	1779	O	SER	B2113	19.677	1.327	21.092	1.00	17.25	O
ATOM	1780	N	VAL	B2114	20.220	-0.837	20.840	1.00	16.23	N
ATOM	1781	CA	VAL	B2114	21.364	-0.778	21.736	1.00	15.71	C
ATOM	1782	CB	VAL	B2114	21.129	-1.591	23.017	1.00	13.94	C
ATOM	1783	CG1	VAL	B2114	22.451	-1.731	23.784	1.00	14.11	C
ATOM	1784	CG2	VAL	B2114	20.070	-0.923	23.877	1.00	10.51	C
ATOM	1785	C	VAL	B2114	22.617	-1.345	21.106	1.00	16.39	C
ATOM	1786	O	VAL	B2114	22.578	-2.412	20.492	1.00	16.76	O
ATOM	1787	N	ILE	B2115	23.724	-0.625	21.259	1.00	14.68	N
ATOM	1788	CA	ILE	B2115	25.014	-1.093	20.763	1.00	15.53	C

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ATOM	1846	N	GLY	C3006	30.264	-1.106	7.814	1.00	19.77	N
ATOM	1847	CA	GLY	C3006	28.946	-1.124	7.207	1.00	18.90	C
ATOM	1848	C	GLY	C3006	27.840	-1.111	8.240	1.00	18.66	C
ATOM	1849	O	GLY	C3006	28.039	-1.542	9.375	1.00	19.40	O
ATOM	1850	N	HIS	C3007	26.679	-0.595	7.849	1.00	17.60	N
ATOM	1851	CA	HIS	C3007	25.517	-0.544	8.726	1.00	17.25	C
ATOM	1852	CB	HIS	C3007	25.541	0.709	9.615	1.00	17.61	C
ATOM	1853	CG	HIS	C3007	24.315	0.867	10.469	1.00	17.57	C
ATOM	1854	CD2	HIS	C3007	23.615	1.967	10.834	1.00	17.24	C
ATOM	1855	ND1	HIS	C3007	23.686	-0.203	11.072	1.00	17.16	N
ATOM	1856	CE1	HIS	C3007	22.651	0.231	11.771	1.00	17.81	C
ATOM	1857	NE2	HIS	C3007	22.585	1.545	11.644	1.00	18.60	N
ATOM	1858	C	HIS	C3007	24.264	-0.540	7.867	1.00	17.20	C
ATOM	1859	O	HIS	C3007	24.138	0.249	6.924	1.00	17.44	O
ATOM	1860	N	GLY	C3008	23.335	-1.427	8.187	1.00	16.34	N
ATOM	1861	CA	GLY	C3008	22.111	-1.484	7.416	1.00	18.39	C
ATOM	1862	C	GLY	C3008	20.925	-1.924	8.242	1.00	19.04	C
ATOM	1863	O	GLY	C3008	21.060	-2.752	9.145	1.00	19.03	O
ATOM	1864	N	ILE	C3009	19.761	-1.352	7.944	1.00	18.83	N
ATOM	1865	CA	ILE	C3009	18.542	-1.718	8.640	1.00	19.42	C
ATOM	1866	CB	ILE	C3009	18.047	-0.598	9.594	1.00	18.51	C
ATOM	1867	CG2	ILE	C3009	19.197	-0.150	10.493	1.00	20.36	C
ATOM	1868	CG1	ILE	C3009	17.505	0.585	8.797	1.00	17.23	C
ATOM	1869	CD1	ILE	C3009	16.778	1.592	9.643	1.00	13.66	C
ATOM	1870	C	ILE	C3009	17.473	-1.992	7.602	1.00	18.70	C
ATOM	1871	O	ILE	C3009	17.647	-1.685	6.427	1.00	15.95	O
ATOM	1872	N	ASP	C3010	16.369	-2.585	8.037	1.00	19.75	N
ATOM	1873	CA	ASP	C3010	15.278	-2.882	7.129	1.00	20.22	C
ATOM	1874	CB	ASP	C3010	15.550	-4.184	6.358	1.00	20.94	C
ATOM	1875	CG	ASP	C3010	14.474	-4.487	5.310	1.00	22.14	C
ATOM	1876	OD1	ASP	C3010	14.480	-3.844	4.236	1.00	22.44	O
ATOM	1877	OD2	ASP	C3010	13.617	-5.363	5.561	1.00	20.92	O
ATOM	1878	C	ASP	C3010	14.007	-3.047	7.932	1.00	21.28	C
ATOM	1879	O	ASP	C3010	14.042	-3.500	9.078	1.00	21.26	O
ATOM	1880	N	ILE	C3011	12.893	-2.646	7.333	1.00	19.66	N
ATOM	1881	CA	ILE	C3011	11.588	-2.813	7.949	1.00	20.09	C
ATOM	1882	CB	ILE	C3011	10.959	-1.476	8.400	1.00	20.39	C
ATOM	1883	CG2	ILE	C3011	10.910	-0.478	7.234	1.00	16.27	C
ATOM	1884	CG1	ILE	C3011	9.561	-1.753	8.971	1.00	20.84	C
ATOM	1885	CD1	ILE	C3011	9.081	-0.712	9.969	1.00	21.63	C
ATOM	1886	C	ILE	C3011	10.777	-3.440	6.825	1.00	21.21	C
ATOM	1887	O	ILE	C3011	10.866	-3.006	5.678	1.00	21.49	O
ATOM	1888	N	GLU	C3012	10.018	-4.481	7.140	1.00	21.79	N
ATOM	1889	CA	GLU	C3012	9.249	-5.174	6.120	1.00	23.44	C
ATOM	1890	CB	GLU	C3012	10.024	-6.415	5.656	1.00	24.63	C
ATOM	1891	CG	GLU	C3012	9.269	-7.309	4.667	1.00	27.74	C
ATOM	1892	CD	GLU	C3012	9.351	-6.812	3.237	1.00	27.70	C
ATOM	1893	OE1	GLU	C3012	9.663	-5.626	3.032	1.00	28.89	O
ATOM	1894	OE2	GLU	C3012	9.091	-7.612	2.314	1.00	31.17	O
ATOM	1895	C	GLU	C3012	7.873	-5.583	6.625	1.00	23.57	C
ATOM	1896	O	GLU	C3012	7.750	-6.258	7.647	1.00	22.12	O
ATOM	1897	N	GLU	C3013	6.840	-5.170	5.904	1.00	23.45	N
ATOM	1898	CA	GLU	C3013	5.491	-5.519	6.286	1.00	24.76	C
ATOM	1899	CB	GLU	C3013	4.479	-4.613	5.571	1.00	29.22	C
ATOM	1900	CG	GLU	C3013	3.662	-3.731	6.531	1.00	33.17	C
ATOM	1901	CD	GLU	C3013	3.915	-2.242	6.349	1.00	38.85	C
ATOM	1902	OE1	GLU	C3013	3.660	-1.719	5.238	1.00	44.44	O

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ATOM	1903	OE2	GLU	C3013	4.359	-1.586	7.318	1.00	38.04	O
ATOM	1904	C	GLU	C3013	5.238	-6.993	5.963	1.00	24.30	C
ATOM	1905	O	GLU	C3013	5.643	-7.502	4.910	1.00	21.31	O
ATOM	1906	N	LEU	C3014	4.599	-7.685	6.898	1.00	22.97	N
ATOM	1907	CA	LEU	C3014	4.287	-9.092	6.712	1.00	26.19	C
ATOM	1908	CB	LEU	C3014	3.531	-9.613	7.939	1.00	28.12	C
ATOM	1909	CG	LEU	C3014	4.251	-10.630	8.829	1.00	31.98	C
ATOM	1910	CD1	LEU	C3014	5.647	-10.144	9.191	1.00	31.03	C
ATOM	1911	CD2	LEU	C3014	3.414	-10.868	10.083	1.00	33.69	C
ATOM	1912	C	LEU	C3014	3.453	-9.308	5.439	1.00	25.44	C
ATOM	1913	O	LEU	C3014	3.554	-10.345	4.793	1.00	25.78	O
ATOM	1914	N	ALA	C3015	2.644	-8.320	5.073	1.00	24.83	N
ATOM	1915	CA	ALA	C3015	1.801	-8.438	3.879	1.00	27.12	C
ATOM	1916	CB	ALA	C3015	0.915	-7.206	3.747	1.00	27.24	C
ATOM	1917	C	ALA	C3015	2.592	-8.659	2.584	1.00	27.01	C
ATOM	1918	O	ALA	C3015	2.215	-9.497	1.761	1.00	26.98	O
ATOM	1919	N	SER	C3016	3.683	-7.916	2.399	1.00	26.19	N
ATOM	1920	CA	SER	C3016	4.498	-8.062	1.192	1.00	27.18	C
ATOM	1921	CB	SER	C3016	5.706	-7.117	1.232	1.00	27.62	C
ATOM	1922	OG	SER	C3016	5.324	-5.799	1.573	1.00	28.51	O
ATOM	1923	C	SER	C3016	4.997	-9.502	1.072	1.00	27.53	C
ATOM	1924	O	SER	C3016	5.069	-10.062	-0.027	1.00	26.07	O
ATOM	1925	N	ILE	C3017	5.343	-10.094	2.212	1.00	26.80	N
ATOM	1926	CA	ILE	C3017	5.841	-11.464	2.248	1.00	25.88	C
ATOM	1927	CB	ILE	C3017	6.519	-11.771	3.613	1.00	25.28	C
ATOM	1928	CG2	ILE	C3017	6.909	-13.241	3.688	1.00	23.81	C
ATOM	1929	CG1	ILE	C3017	7.739	-10.863	3.808	1.00	24.39	C
ATOM	1930	CD1	ILE	C3017	8.815	-11.007	2.735	1.00	24.49	C
ATOM	1931	C	ILE	C3017	4.698	-12.456	2.019	1.00	26.06	C
ATOM	1932	O	ILE	C3017	4.830	-13.408	1.253	1.00	26.57	O
ATOM	1933	N	GLU	C3018	3.576	-12.235	2.690	1.00	26.59	N
ATOM	1934	CA	GLU	C3018	2.429	-13.122	2.534	1.00	28.88	C
ATOM	1935	CB	GLU	C3018	1.284	-12.645	3.427	1.00	29.66	C
ATOM	1936	CG	GLU	C3018	1.688	-12.504	4.884	1.00	32.78	C
ATOM	1937	CD	GLU	C3018	0.656	-11.783	5.722	1.00	34.19	C
ATOM	1938	OE1	GLU	C3018	-0.010	-10.865	5.190	1.00	34.18	O
ATOM	1939	OE2	GLU	C3018	0.525	-12.118	6.920	1.00	35.99	O
ATOM	1940	C	GLU	C3018	1.983	-13.163	1.067	1.00	29.36	C
ATOM	1941	O	GLU	C3018	1.763	-14.239	0.507	1.00	28.97	O
ATOM	1942	N	SER	C3019	1.867	-11.994	0.440	1.00	28.95	N
ATOM	1943	CA	SER	C3019	1.454	-11.931	-0.957	1.00	29.90	C
ATOM	1944	CB	SER	C3019	1.285	-10.476	-1.410	1.00	30.07	C
ATOM	1945	OG	SER	C3019	2.542	-9.866	-1.632	1.00	33.15	O
ATOM	1946	C	SER	C3019	2.489	-12.623	-1.837	1.00	30.43	C
ATOM	1947	O	SER	C3019	2.138	-13.362	-2.755	1.00	30.07	O
ATOM	1948	N	ALA	C3020	3.766	-12.391	-1.549	1.00	29.14	N
ATOM	1949	CA	ALA	C3020	4.842	-12.994	-2.327	1.00	30.13	C
ATOM	1950	CB	ALA	C3020	6.191	-12.465	-1.847	1.00	31.02	C
ATOM	1951	C	ALA	C3020	4.834	-14.527	-2.269	1.00	30.69	C
ATOM	1952	O	ALA	C3020	5.111	-15.198	-3.264	1.00	30.30	O
ATOM	1953	N	VAL	C3021	4.530	-15.082	-1.103	1.00	30.94	N
ATOM	1954	CA	VAL	C3021	4.501	-16.532	-0.959	1.00	33.03	C
ATOM	1955	CB	VAL	C3021	4.172	-16.950	0.489	1.00	32.04	C
ATOM	1956	CG1	VAL	C3021	3.982	-18.465	0.565	1.00	31.51	C
ATOM	1957	CG2	VAL	C3021	5.292	-16.521	1.414	1.00	31.14	C
ATOM	1958	C	VAL	C3021	3.458	-17.135	-1.896	1.00	35.03	C
ATOM	1959	O	VAL	C3021	3.736	-18.094	-2.616	1.00	36.27	O

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ATOM	1960	N	THR	C3022	2.263	-16.552	-1.889	1.00	36.26	N
ATOM	1961	CA	THR	C3022	1.166	-17.019	-2.726	1.00	38.71	C
ATOM	1962	CB	THR	C3022	-0.142	-16.274	-2.371	1.00	38.89	C
ATOM	1963	OG1	THR	C3022	-0.532	-16.613	-1.034	1.00	39.61	O
ATOM	1964	CG2	THR	C3022	-1.262	-16.654	-3.336	1.00	37.67	C
ATOM	1965	C	THR	C3022	1.458	-16.836	-4.214	1.00	40.67	C
ATOM	1966	O	THR	C3022	1.325	-17.772	-5.005	1.00	40.21	O
ATOM	1967	N	ARG	C3023	1.859	-15.626	-4.587	1.00	42.70	N
ATOM	1968	CA	ARG	C3023	2.161	-15.303	-5.974	1.00	46.22	C
ATOM	1969	CB	ARG	C3023	2.861	-13.944	-6.037	1.00	46.79	C
ATOM	1970	CG	ARG	C3023	2.842	-13.278	-7.396	1.00	47.31	C
ATOM	1971	CD	ARG	C3023	3.264	-11.827	-7.269	1.00	47.58	C
ATOM	1972	NE	ARG	C3023	4.544	-11.695	-6.577	1.00	48.02	N
ATOM	1973	CZ	ARG	C3023	4.741	-10.924	-5.511	1.00	48.91	C
ATOM	1974	NH1	ARG	C3023	3.736	-10.214	-5.008	1.00	46.67	N
ATOM	1975	NH2	ARG	C3023	5.943	-10.861	-4.948	1.00	48.13	N
ATOM	1976	C	ARG	C3023	3.020	-16.391	-6.616	1.00	47.90	C
ATOM	1977	O	ARG	C3023	2.684	-16.906	-7.681	1.00	49.41	O
ATOM	1978	N	HIS	C3024	4.129	-16.737	-5.968	1.00	49.64	N
ATOM	1979	CA	HIS	C3024	5.019	-17.787	-6.458	1.00	50.08	C
ATOM	1980	CB	HIS	C3024	6.303	-17.193	-7.045	1.00	51.60	C
ATOM	1981	CG	HIS	C3024	6.100	-16.464	-8.338	1.00	53.54	C
ATOM	1982	CD2	HIS	C3024	6.507	-16.754	-9.597	1.00	53.69	C
ATOM	1983	ND1	HIS	C3024	5.397	-15.282	-8.426	1.00	54.78	N
ATOM	1984	CE1	HIS	C3024	5.379	-14.875	-9.683	1.00	53.97	C
ATOM	1985	NE2	HIS	C3024	6.045	-15.750	-10.414	1.00	53.74	N
ATOM	1986	C	HIS	C3024	5.370	-18.720	-5.304	1.00	50.32	C
ATOM	1987	O	HIS	C3024	6.030	-18.314	-4.347	1.00	50.15	O
ATOM	1988	N	GLU	C3025	4.929	-19.971	-5.394	1.00	49.54	N
ATOM	1989	CA	GLU	C3025	5.197	-20.937	-4.335	1.00	49.18	C
ATOM	1990	CB	GLU	C3025	4.507	-22.270	-4.632	1.00	52.19	C
ATOM	1991	CG	GLU	C3025	4.778	-23.331	-3.575	1.00	55.07	C
ATOM	1992	CD	GLU	C3025	4.269	-24.694	-3.972	1.00	57.92	C
ATOM	1993	OE1	GLU	C3025	3.033	-24.870	-4.053	1.00	58.55	O
ATOM	1994	OE2	GLU	C3025	5.111	-25.590	-4.206	1.00	59.67	O
ATOM	1995	C	GLU	C3025	6.685	-21.182	-4.118	1.00	46.90	C
ATOM	1996	O	GLU	C3025	7.087	-21.711	-3.084	1.00	47.27	O
ATOM	1997	N	GLY	C3026	7.502	-20.801	-5.092	1.00	44.54	N
ATOM	1998	CA	GLY	C3026	8.933	-20.997	-4.956	1.00	41.90	C
ATOM	1999	C	GLY	C3026	9.636	-19.811	-4.320	1.00	40.26	C
ATOM	2000	O	GLY	C3026	10.867	-19.768	-4.265	1.00	39.86	O
ATOM	2001	N	PHE	C3027	8.860	-18.842	-3.841	1.00	37.59	N
ATOM	2002	CA	PHE	C3027	9.434	-17.655	-3.217	1.00	35.31	C
ATOM	2003	CB	PHE	C3027	8.323	-16.715	-2.738	1.00	34.09	C
ATOM	2004	CG	PHE	C3027	8.832	-15.491	-2.031	1.00	33.77	C
ATOM	2005	CD1	PHE	C3027	9.633	-14.569	-2.700	1.00	33.43	C
ATOM	2006	CD2	PHE	C3027	8.543	-15.277	-0.687	1.00	32.68	C
ATOM	2007	CE1	PHE	C3027	10.141	-13.450	-2.042	1.00	32.28	C
ATOM	2008	CE2	PHE	C3027	9.045	-14.163	-0.016	1.00	33.06	C
ATOM	2009	CZ	PHE	C3027	9.847	-13.248	-0.696	1.00	33.30	C
ATOM	2010	C	PHE	C3027	10.331	-18.032	-2.042	1.00	34.03	C
ATOM	2011	O	PHE	C3027	11.511	-17.688	-2.019	1.00	34.88	O
ATOM	2012	N	ALA	C3028	9.767	-18.743	-1.071	1.00	33.39	N
ATOM	2013	CA	ALA	C3028	10.516	-19.159	0.109	1.00	34.32	C
ATOM	2014	CB	ALA	C3028	9.651	-20.053	0.987	1.00	33.64	C
ATOM	2015	C	ALA	C3028	11.799	-19.885	-0.263	1.00	34.75	C
ATOM	2016	O	ALA	C3028	12.873	-19.572	0.257	1.00	34.90	O

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ATOM	2017	N	LYS	C3029	11.683	-20.854	-1.166	1.00	33.73	N
ATOM	2018	CA	LYS	C3029	12.831	-21.636	-1.605	1.00	32.87	C
ATOM	2019	CB	LYS	C3029	12.396	-22.671	-2.650	1.00	32.28	C
ATOM	2020	CG	LYS	C3029	11.313	-23.617	-2.157	0.05	32.40	C
ATOM	2021	CD	LYS	C3029	10.821	-24.537	-3.261	0.05	32.28	C
ATOM	2022	CE	LYS	C3029	9.721	-25.456	-2.753	0.05	32.20	C
ATOM	2023	NZ	LYS	C3029	9.160	-26.313	-3.833	0.05	32.15	N
ATOM	2024	C	LYS	C3029	13.910	-20.735	-2.181	1.00	32.70	C
ATOM	2025	O	LYS	C3029	15.100	-21.016	-2.048	1.00	33.44	O
ATOM	2026	N	ARG	C3030	13.498	-19.643	-2.814	1.00	32.85	N
ATOM	2027	CA	ARG	C3030	14.458	-18.714	-3.397	1.00	32.53	C
ATOM	2028	CB	ARG	C3030	13.796	-17.877	-4.497	0.05	32.58	C
ATOM	2029	CG	ARG	C3030	13.442	-18.670	-5.747	0.05	32.72	C
ATOM	2030	CD	ARG	C3030	13.135	-17.752	-6.922	0.05	32.87	C
ATOM	2031	NE	ARG	C3030	11.916	-16.973	-6.722	0.05	33.03	N
ATOM	2032	CZ	ARG	C3030	10.691	-17.490	-6.720	0.05	33.10	C
ATOM	2033	NH1	ARG	C3030	10.517	-18.791	-6.908	0.05	33.16	N
ATOM	2034	NH2	ARG	C3030	9.639	-16.705	-6.531	0.05	33.04	N
ATOM	2035	C	ARG	C3030	15.080	-17.794	-2.351	1.00	32.30	C
ATOM	2036	O	ARG	C3030	16.242	-17.408	-2.470	1.00	32.85	O
ATOM	2037	N	VAL	C3031	14.303	-17.455	-1.325	1.00	31.53	N
ATOM	2038	CA	VAL	C3031	14.755	-16.574	-0.245	1.00	30.10	C
ATOM	2039	CB	VAL	C3031	13.541	-15.905	0.469	1.00	30.44	C
ATOM	2040	CG1	VAL	C3031	14.007	-15.140	1.701	1.00	31.92	C
ATOM	2041	CG2	VAL	C3031	12.824	-14.967	-0.484	1.00	31.35	C
ATOM	2042	C	VAL	C3031	15.576	-17.284	0.836	1.00	29.72	C
ATOM	2043	O	VAL	C3031	16.475	-16.686	1.439	1.00	29.40	O
ATOM	2044	N	LEU	C3032	15.259	-18.554	1.076	1.00	27.31	N
ATOM	2045	CA	LEU	C3032	15.911	-19.338	2.119	1.00	25.97	C
ATOM	2046	CB	LEU	C3032	14.839	-19.917	3.047	1.00	24.74	C
ATOM	2047	CG	LEU	C3032	13.782	-18.943	3.572	1.00	22.82	C
ATOM	2048	CD1	LEU	C3032	12.717	-19.708	4.361	1.00	23.17	C
ATOM	2049	CD2	LEU	C3032	14.454	-17.893	4.452	1.00	21.55	C
ATOM	2050	C	LEU	C3032	16.793	-20.485	1.630	1.00	27.28	C
ATOM	2051	O	LEU	C3032	16.447	-21.187	0.676	1.00	28.34	O
ATOM	2052	N	THR	C3033	17.924	-20.676	2.307	1.00	26.40	N
ATOM	2053	CA	THR	C3033	18.847	-21.756	1.984	1.00	27.30	C
ATOM	2054	CB	THR	C3033	20.149	-21.662	2.795	1.00	25.69	C
ATOM	2055	OG1	THR	C3033	19.845	-21.820	4.186	1.00	26.34	O
ATOM	2056	CG2	THR	C3033	20.835	-20.323	2.574	1.00	26.77	C
ATOM	2057	C	THR	C3033	18.170	-23.062	2.385	1.00	27.70	C
ATOM	2058	O	THR	C3033	17.061	-23.061	2.920	1.00	28.12	O
ATOM	2059	N	ALA	C3034	18.853	-24.174	2.145	1.00	28.90	N
ATOM	2060	CA	ALA	C3034	18.314	-25.484	2.493	1.00	29.05	C
ATOM	2061	CB	ALA	C3034	19.283	-26.572	2.062	1.00	29.42	C
ATOM	2062	C	ALA	C3034	18.047	-25.594	3.990	1.00	28.60	C
ATOM	2063	O	ALA	C3034	16.965	-26.008	4.403	1.00	29.51	O
ATOM	2064	N	LEU	C3035	19.029	-25.218	4.805	1.00	28.04	N
ATOM	2065	CA	LEU	C3035	18.869	-25.310	6.249	1.00	27.61	C
ATOM	2066	CB	LEU	C3035	20.187	-24.964	6.952	1.00	29.31	C
ATOM	2067	CG	LEU	C3035	20.522	-25.809	8.190	1.00	31.59	C
ATOM	2068	CD1	LEU	C3035	20.472	-27.297	7.821	1.00	32.29	C
ATOM	2069	CD2	LEU	C3035	21.902	-25.438	8.727	1.00	30.00	C
ATOM	2070	C	LEU	C3035	17.740	-24.410	6.747	1.00	27.52	C
ATOM	2071	O	LEU	C3035	16.922	-24.832	7.571	1.00	26.23	O
ATOM	2072	N	GLU	C3036	17.688	-23.176	6.247	1.00	27.39	N
ATOM	2073	CA	GLU	C3036	16.636	-22.240	6.649	1.00	27.23	C

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ATOM	2074	CB	GLU	C3036	16.849	-20.877	5.981	1.00	25.56	C
ATOM	2075	CG	GLU	C3036	17.834	-19.978	6.707	1.00	22.65	C
ATOM	2076	CD	GLU	C3036	18.256	-18.777	5.880	1.00	23.21	C
ATOM	2077	OE1	GLU	C3036	18.735	-17.784	6.469	1.00	22.56	O
ATOM	2078	OE2	GLU	C3036	18.124	-18.825	4.638	1.00	24.80	O
ATOM	2079	C	GLU	C3036	15.258	-22.793	6.278	1.00	28.00	C
ATOM	2080	O	GLU	C3036	14.306	-22.668	7.047	1.00	27.30	O
ATOM	2081	N	MET	C3037	15.160	-23.401	5.098	1.00	28.24	N
ATOM	2082	CA	MET	C3037	13.897	-23.979	4.641	1.00	30.24	C
ATOM	2083	CB	MET	C3037	14.051	-24.593	3.247	1.00	31.74	C
ATOM	2084	CG	MET	C3037	13.885	-23.605	2.102	1.00	32.56	C
ATOM	2085	SD	MET	C3037	12.289	-22.761	2.156	1.00	37.45	S
ATOM	2086	CE	MET	C3037	11.153	-24.108	1.753	1.00	36.07	C
ATOM	2087	C	MET	C3037	13.411	-25.049	5.608	1.00	31.16	C
ATOM	2088	O	MET	C3037	12.222	-25.124	5.920	1.00	30.55	O
ATOM	2089	N	GLU	C3038	14.336	-25.882	6.076	1.00	31.23	N
ATOM	2090	CA	GLU	C3038	13.992	-26.936	7.018	1.00	31.35	C
ATOM	2091	CB	GLU	C3038	15.257	-27.635	7.525	0.05	30.95	C
ATOM	2092	CG	GLU	C3038	15.478	-29.023	6.948	0.05	30.58	C
ATOM	2093	CD	GLU	C3038	16.721	-29.692	7.504	0.05	30.41	C
ATOM	2094	OE1	GLU	C3038	16.840	-29.795	8.744	0.05	30.03	O
ATOM	2095	OE2	GLU	C3038	17.578	-30.118	6.702	0.05	30.15	O
ATOM	2096	C	GLU	C3038	13.235	-26.330	8.191	1.00	31.53	C
ATOM	2097	O	GLU	C3038	12.255	-26.897	8.663	1.00	32.15	O
ATOM	2098	N	ARG	C3039	13.697	-25.176	8.664	1.00	32.00	N
ATOM	2099	CA	ARG	C3039	13.046	-24.496	9.781	1.00	33.21	C
ATOM	2100	CB	ARG	C3039	13.928	-23.353	10.289	1.00	34.11	C
ATOM	2101	CG	ARG	C3039	13.317	-22.548	11.434	1.00	37.68	C
ATOM	2102	CD	ARG	C3039	13.189	-23.377	12.704	1.00	39.59	C
ATOM	2103	NE	ARG	C3039	12.565	-22.626	13.791	1.00	41.92	N
ATOM	2104	CZ	ARG	C3039	12.195	-23.159	14.952	1.00	43.02	C
ATOM	2105	NH1	ARG	C3039	12.384	-24.450	15.183	1.00	43.57	N
ATOM	2106	NH2	ARG	C3039	11.625	-22.402	15.881	1.00	44.00	N
ATOM	2107	C	ARG	C3039	11.692	-23.939	9.339	1.00	32.70	C
ATOM	2108	O	ARG	C3039	10.674	-24.130	10.005	1.00	31.81	O
ATOM	2109	N	PHE	C3040	11.699	-23.240	8.210	1.00	32.86	N
ATOM	2110	CA	PHE	C3040	10.489	-22.646	7.653	1.00	33.52	C
ATOM	2111	CB	PHE	C3040	10.778	-22.128	6.242	1.00	32.08	C
ATOM	2112	CG	PHE	C3040	9.569	-21.604	5.528	1.00	32.50	C
ATOM	2113	CD1	PHE	C3040	9.012	-20.380	5.880	1.00	31.27	C
ATOM	2114	CD2	PHE	C3040	8.980	-22.340	4.503	1.00	32.76	C
ATOM	2115	CE1	PHE	C3040	7.882	-19.895	5.222	1.00	31.92	C
ATOM	2116	CE2	PHE	C3040	7.851	-21.865	3.839	1.00	33.27	C
ATOM	2117	CZ	PHE	C3040	7.301	-20.637	4.201	1.00	31.45	C
ATOM	2118	C	PHE	C3040	9.367	-23.680	7.595	1.00	33.45	C
ATOM	2119	O	PHE	C3040	8.264	-23.457	8.100	1.00	33.35	O
ATOM	2120	N	THR	C3041	9.669	-24.819	6.983	1.00	34.68	N
ATOM	2121	CA	THR	C3041	8.706	-25.898	6.828	1.00	35.57	C
ATOM	2122	CB	THR	C3041	9.286	-27.002	5.923	1.00	36.24	C
ATOM	2123	OG1	THR	C3041	9.517	-26.464	4.616	1.00	38.04	O
ATOM	2124	CG2	THR	C3041	8.324	-28.170	5.813	1.00	36.60	C
ATOM	2125	C	THR	C3041	8.232	-26.517	8.143	1.00	36.09	C
ATOM	2126	O	THR	C3041	7.084	-26.945	8.247	1.00	37.27	O
ATOM	2127	N	SER	C3042	9.100	-26.560	9.147	1.00	36.67	N
ATOM	2128	CA	SER	C3042	8.718	-27.142	10.427	1.00	37.38	C
ATOM	2129	CB	SER	C3042	9.952	-27.377	11.303	1.00	38.44	C
ATOM	2130	OG	SER	C3042	10.391	-26.172	11.904	1.00	39.31	O

ATOM	2131	C	SER	C3042	7.744	-26.230	11.157	1.00	37.81	C
ATOM	2132	O	SER	C3042	7.010	-26.671	12.042	1.00	38.07	O
ATOM	2133	N	LEU	C3043	7.740	-24.956	10.781	1.00	37.43	N
ATOM	2134	CA	LEU	C3043	6.860	-23.969	11.400	1.00	37.02	C
ATOM	2135	CB	LEU	C3043	7.549	-22.600	11.428	1.00	37.05	C
ATOM	2136	CG	LEU	C3043	8.597	-22.327	12.513	1.00	37.93	C
ATOM	2137	CD1	LEU	C3043	9.573	-23.470	12.628	1.00	39.39	C
ATOM	2138	CD2	LEU	C3043	9.328	-21.040	12.177	1.00	38.02	C
ATOM	2139	C	LEU	C3043	5.526	-23.851	10.666	1.00	37.04	C
ATOM	2140	O	LEU	C3043	5.389	-24.291	9.522	1.00	37.65	O
ATOM	2141	N	LYS	C3044	4.542	-23.250	11.325	1.00	36.12	N
ATOM	2142	CA	LYS	C3044	3.236	-23.075	10.707	1.00	35.63	C
ATOM	2143	CB	LYS	C3044	2.313	-24.246	11.072	1.00	37.63	C
ATOM	2144	CG	LYS	C3044	1.985	-24.356	12.555	1.00	40.09	C
ATOM	2145	CD	LYS	C3044	0.926	-25.432	12.813	1.00	42.38	C
ATOM	2146	CE	LYS	C3044	1.397	-26.813	12.365	1.00	42.85	C
ATOM	2147	NZ	LYS	C3044	0.339	-27.847	12.550	1.00	43.11	N
ATOM	2148	C	LYS	C3044	2.584	-21.753	11.111	1.00	33.57	C
ATOM	2149	O	LYS	C3044	2.990	-21.116	12.086	1.00	33.02	O
ATOM	2150	N	GLY	C3045	1.579	-21.345	10.339	1.00	31.64	N
ATOM	2151	CA	GLY	C3045	0.860	-20.115	10.618	1.00	29.90	C
ATOM	2152	C	GLY	C3045	1.689	-18.844	10.666	1.00	28.38	C
ATOM	2153	O	GLY	C3045	2.643	-18.676	9.915	1.00	28.13	O
ATOM	2154	N	ARG	C3046	1.299	-17.946	11.564	1.00	28.66	N
ATOM	2155	CA	ARG	C3046	1.957	-16.661	11.758	1.00	27.23	C
ATOM	2156	CB	ARG	C3046	1.279	-15.920	12.912	0.05	27.45	C
ATOM	2157	CG	ARG	C3046	-0.235	-15.860	12.769	0.05	27.80	C
ATOM	2158	CD	ARG	C3046	-0.912	-15.403	14.048	0.05	28.08	C
ATOM	2159	NE	ARG	C3046	-2.364	-15.526	13.962	0.05	28.35	N
ATOM	2160	CZ	ARG	C3046	-3.199	-15.249	14.959	0.05	28.51	C
ATOM	2161	NH1	ARG	C3046	-4.506	-15.394	14.792	0.05	28.59	N
ATOM	2162	NH2	ARG	C3046	-2.727	-14.831	16.127	0.05	28.63	N
ATOM	2163	C	ARG	C3046	3.451	-16.827	12.041	1.00	26.66	C
ATOM	2164	O	ARG	C3046	4.276	-16.065	11.537	1.00	23.83	O
ATOM	2165	N	ARG	C3047	3.797	-17.824	12.847	1.00	26.74	N
ATOM	2166	CA	ARG	C3047	5.197	-18.068	13.172	1.00	28.45	C
ATOM	2167	CB	ARG	C3047	5.330	-19.223	14.167	1.00	30.78	C
ATOM	2168	CG	ARG	C3047	4.824	-18.919	15.567	1.00	36.74	C
ATOM	2169	CD	ARG	C3047	5.548	-19.793	16.580	1.00	40.75	C
ATOM	2170	NE	ARG	C3047	6.991	-19.561	16.540	1.00	43.99	N
ATOM	2171	CZ	ARG	C3047	7.894	-20.341	17.126	1.00	45.84	C
ATOM	2172	NH1	ARG	C3047	7.508	-21.417	17.803	1.00	47.05	N
ATOM	2173	NH2	ARG	C3047	9.184	-20.046	17.036	1.00	46.26	N
ATOM	2174	C	ARG	C3047	6.004	-18.396	11.924	1.00	26.96	C
ATOM	2175	O	ARG	C3047	7.171	-18.019	11.809	1.00	27.18	O
ATOM	2176	N	GLN	C3048	5.385	-19.108	10.989	1.00	25.16	N
ATOM	2177	CA	GLN	C3048	6.080	-19.474	9.765	1.00	24.64	C
ATOM	2178	CB	GLN	C3048	5.262	-20.489	8.964	1.00	24.71	C
ATOM	2179	CG	GLN	C3048	6.087	-21.176	7.884	1.00	24.87	C
ATOM	2180	CD	GLN	C3048	5.261	-22.028	6.947	1.00	27.10	C
ATOM	2181	OE1	GLN	C3048	5.757	-23.007	6.393	1.00	28.27	O
ATOM	2182	NE2	GLN	C3048	4.000	-21.650	6.747	1.00	27.28	N
ATOM	2183	C	GLN	C3048	6.342	-18.240	8.907	1.00	23.81	C
ATOM	2184	O	GLN	C3048	7.441	-18.064	8.376	1.00	22.00	O
ATOM	2185	N	ILE	C3049	5.323	-17.394	8.767	1.00	23.83	N
ATOM	2186	CA	ILE	C3049	5.449	-16.174	7.972	1.00	22.84	C
ATOM	2187	CB	ILE	C3049	4.099	-15.428	7.889	1.00	23.39	C

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ATOM	2188	CG2	ILE	C3049	4.270	-14.110	7.123	1.00	20.78	C
ATOM	2189	CG1	ILE	C3049	3.068	-16.317	7.194	1.00	25.01	C
ATOM	2190	CD1	ILE	C3049	1.637	-15.812	7.313	1.00	28.28	C
ATOM	2191	C	ILE	C3049	6.492	-15.254	8.596	1.00	22.76	C
ATOM	2192	O	ILE	C3049	7.334	-14.695	7.901	1.00	22.64	O
ATOM	2193	N	GLU	C3050	6.426	-15.119	9.917	1.00	23.06	N
ATOM	2194	CA	GLU	C3050	7.347	-14.287	10.685	1.00	23.40	C
ATOM	2195	CB	GLU	C3050	7.023	-14.436	12.169	1.00	27.99	C
ATOM	2196	CG	GLU	C3050	7.336	-13.229	13.014	1.00	34.34	C
ATOM	2197	CD	GLU	C3050	6.633	-11.997	12.501	1.00	37.30	C
ATOM	2198	OE1	GLU	C3050	7.273	-11.233	11.752	1.00	38.54	O
ATOM	2199	OE2	GLU	C3050	5.437	-11.807	12.825	1.00	38.13	O
ATOM	2200	C	GLU	C3050	8.798	-14.707	10.429	1.00	22.91	C
ATOM	2201	O	GLU	C3050	9.675	-13.863	10.212	1.00	19.78	O
ATOM	2202	N	TYR	C3051	9.042	-16.018	10.451	1.00	20.98	N
ATOM	2203	CA	TYR	C3051	10.379	-16.549	10.218	1.00	20.96	C
ATOM	2204	CB	TYR	C3051	10.376	-18.087	10.286	1.00	20.94	C
ATOM	2205	CG	TYR	C3051	11.727	-18.710	9.996	1.00	21.84	C
ATOM	2206	CD1	TYR	C3051	12.091	-19.072	8.699	1.00	21.88	C
ATOM	2207	CE1	TYR	C3051	13.365	-19.563	8.420	1.00	22.08	C
ATOM	2208	CD2	TYR	C3051	12.675	-18.864	11.011	1.00	24.22	C
ATOM	2209	CE2	TYR	C3051	13.947	-19.353	10.743	1.00	22.50	C
ATOM	2210	CZ	TYR	C3051	14.286	-19.695	9.447	1.00	23.28	C
ATOM	2211	OH	TYR	C3051	15.557	-20.142	9.181	1.00	26.17	O
ATOM	2212	C	TYR	C3051	10.893	-16.093	8.863	1.00	21.41	C
ATOM	2213	O	TYR	C3051	11.973	-15.508	8.764	1.00	20.67	O
ATOM	2214	N	LEU	C3052	10.104	-16.357	7.823	1.00	20.18	N
ATOM	2215	CA	LEU	C3052	10.468	-15.985	6.465	1.00	19.73	C
ATOM	2216	CB	LEU	C3052	9.347	-16.399	5.502	1.00	20.90	C
ATOM	2217	CG	LEU	C3052	9.488	-16.052	4.019	1.00	20.73	C
ATOM	2218	CD1	LEU	C3052	10.837	-16.537	3.484	1.00	21.92	C
ATOM	2219	CD2	LEU	C3052	8.329	-16.704	3.247	1.00	22.34	C
ATOM	2220	C	LEU	C3052	10.725	-14.487	6.365	1.00	18.62	C
ATOM	2221	O	LEU	C3052	11.745	-14.057	5.819	1.00	18.97	O
ATOM	2222	N	ALA	C3053	9.805	-13.697	6.912	1.00	18.23	N
ATOM	2223	CA	ALA	C3053	9.921	-12.238	6.888	1.00	19.28	C
ATOM	2224	CB	ALA	C3053	8.670	-11.611	7.489	1.00	19.78	C
ATOM	2225	C	ALA	C3053	11.164	-11.746	7.634	1.00	18.63	C
ATOM	2226	O	ALA	C3053	11.835	-10.815	7.191	1.00	17.69	O
ATOM	2227	N	GLY	C3054	11.464	-12.375	8.767	1.00	18.30	N
ATOM	2228	CA	GLY	C3054	12.635	-11.989	9.534	1.00	18.14	C
ATOM	2229	C	GLY	C3054	13.915	-12.303	8.776	1.00	19.55	C
ATOM	2230	O	GLY	C3054	14.888	-11.545	8.831	1.00	18.40	O
ATOM	2231	N	ARG	C3055	13.927	-13.421	8.060	1.00	18.30	N
ATOM	2232	CA	ARG	C3055	15.112	-13.783	7.298	1.00	19.48	C
ATOM	2233	CB	ARG	C3055	15.021	-15.239	6.839	1.00	20.53	C
ATOM	2234	CG	ARG	C3055	15.815	-16.213	7.709	1.00	22.48	C
ATOM	2235	CD	ARG	C3055	15.450	-16.093	9.181	1.00	26.13	C
ATOM	2236	NE	ARG	C3055	16.291	-16.945	10.019	1.00	28.05	N
ATOM	2237	CZ	ARG	C3055	16.240	-16.972	11.347	1.00	28.02	C
ATOM	2238	NH1	ARG	C3055	15.389	-16.190	11.999	1.00	28.89	N
ATOM	2239	NH2	ARG	C3055	17.034	-17.788	12.024	1.00	28.23	N
ATOM	2240	C	ARG	C3055	15.283	-12.849	6.108	1.00	20.40	C
ATOM	2241	O	ARG	C3055	16.396	-12.399	5.817	1.00	20.36	O
ATOM	2242	N	TRP	C3056	14.182	-12.547	5.424	1.00	20.72	N
ATOM	2243	CA	TRP	C3056	14.234	-11.641	4.280	1.00	22.18	C
ATOM	2244	CB	TRP	C3056	12.837	-11.486	3.655	1.00	23.99	C

ATOM	2245	CG	TRP	C3056	12.716	-10.303	2.719	1.00	29.31	C
ATOM	2246	CD2	TRP	C3056	12.723	-10.335	1.289	1.00	30.25	C
ATOM	2247	CE2	TRP	C3056	12.609	-9.001	0.840	1.00	32.03	C
ATOM	2248	CE3	TRP	C3056	12.821	-11.362	0.342	1.00	33.18	C
ATOM	2249	CD1	TRP	C3056	12.598	-8.984	3.070	1.00	30.82	C
ATOM	2250	NE1	TRP	C3056	12.532	-8.198	1.947	1.00	33.62	N
ATOM	2251	CZ2	TRP	C3056	12.582	-8.665	-0.515	1.00	34.74	C
ATOM	2252	CZ3	TRP	C3056	12.795	-11.029	-1.010	1.00	34.82	C
ATOM	2253	CH2	TRP	C3056	12.679	-9.690	-1.425	1.00	36.26	C
ATOM	2254	C	TRP	C3056	14.746	-10.284	4.760	1.00	20.86	C
ATOM	2255	O	TRP	C3056	15.608	-9.670	4.134	1.00	18.98	O
ATOM	2256	N	SER	C3057	14.206	-9.835	5.885	1.00	18.95	N
ATOM	2257	CA	SER	C3057	14.586	-8.558	6.487	1.00	19.90	C
ATOM	2258	CB	SER	C3057	13.755	-8.321	7.752	1.00	21.78	C
ATOM	2259	OG	SER	C3057	14.067	-7.076	8.342	1.00	25.39	O
ATOM	2260	C	SER	C3057	16.070	-8.506	6.841	1.00	18.84	C
ATOM	2261	O	SER	C3057	16.767	-7.545	6.514	1.00	19.51	O
ATOM	2262	N	ALA	C3058	16.550	-9.545	7.509	1.00	18.85	N
ATOM	2263	CA	ALA	C3058	17.949	-9.611	7.917	1.00	18.94	C
ATOM	2264	CB	ALA	C3058	18.182	-10.854	8.765	1.00	16.86	C
ATOM	2265	C	ALA	C3058	18.912	-9.608	6.730	1.00	19.28	C
ATOM	2266	O	ALA	C3058	19.955	-8.946	6.765	1.00	19.47	O
ATOM	2267	N	LYS	C3059	18.567	-10.349	5.683	1.00	18.93	N
ATOM	2268	CA	LYS	C3059	19.424	-10.432	4.507	1.00	19.60	C
ATOM	2269	CB	LYS	C3059	18.965	-11.575	3.604	1.00	20.15	C
ATOM	2270	CG	LYS	C3059	19.102	-12.925	4.271	1.00	17.40	C
ATOM	2271	CD	LYS	C3059	18.773	-14.069	3.331	1.00	21.58	C
ATOM	2272	CE	LYS	C3059	18.813	-15.392	4.070	1.00	19.13	C
ATOM	2273	NZ	LYS	C3059	18.667	-16.545	3.158	1.00	24.92	N
ATOM	2274	C	LYS	C3059	19.437	-9.121	3.744	1.00	21.37	C
ATOM	2275	O	LYS	C3059	20.457	-8.734	3.165	1.00	22.73	O
ATOM	2276	N	GLU	C3060	18.297	-8.440	3.745	1.00	22.26	N
ATOM	2277	CA	GLU	C3060	18.175	-7.158	3.080	1.00	22.29	C
ATOM	2278	CB	GLU	C3060	16.708	-6.716	3.076	1.00	24.97	C
ATOM	2279	CG	GLU	C3060	16.424	-5.392	2.373	1.00	32.66	C
ATOM	2280	CD	GLU	C3060	16.807	-5.410	0.901	1.00	37.10	C
ATOM	2281	OE1	GLU	C3060	16.401	-6.359	0.190	1.00	38.38	O
ATOM	2282	OE2	GLU	C3060	17.509	-4.472	0.456	1.00	38.70	O
ATOM	2283	C	GLU	C3060	19.042	-6.172	3.864	1.00	20.94	C
ATOM	2284	O	GLU	C3060	19.829	-5.429	3.285	1.00	22.93	O
ATOM	2285	N	ALA	C3061	18.907	-6.178	5.186	1.00	19.68	N
ATOM	2286	CA	ALA	C3061	19.698	-5.282	6.024	1.00	20.17	C
ATOM	2287	CB	ALA	C3061	19.373	-5.515	7.499	1.00	19.49	C
ATOM	2288	C	ALA	C3061	21.185	-5.520	5.759	1.00	19.14	C
ATOM	2289	O	ALA	C3061	21.953	-4.576	5.572	1.00	18.81	O
ATOM	2290	N	PHE	C3062	21.588	-6.786	5.723	1.00	19.90	N
ATOM	2291	CA	PHE	C3062	22.987	-7.115	5.465	1.00	19.78	C
ATOM	2292	CB	PHE	C3062	23.214	-8.624	5.570	1.00	20.80	C
ATOM	2293	CG	PHE	C3062	24.604	-9.051	5.171	1.00	21.17	C
ATOM	2294	CD1	PHE	C3062	24.896	-9.376	3.847	1.00	21.25	C
ATOM	2295	CD2	PHE	C3062	25.629	-9.074	6.109	1.00	20.45	C
ATOM	2296	CE1	PHE	C3062	26.195	-9.717	3.463	1.00	22.31	C
ATOM	2297	CE2	PHE	C3062	26.930	-9.412	5.738	1.00	21.98	C
ATOM	2298	CZ	PHE	C3062	27.211	-9.733	4.410	1.00	22.06	C
ATOM	2299	C	PHE	C3062	23.443	-6.629	4.089	1.00	21.35	C
ATOM	2300	O	PHE	C3062	24.526	-6.067	3.951	1.00	20.77	O
ATOM	2301	N	SER	C3063	22.612	-6.843	3.074	1.00	22.17	N

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ATOM	2302	CA	SER	C3063	22.949	-6.434	1.717	1.00	22.74	C
ATOM	2303	CB	SER	C3063	21.851	-6.873	0.754	1.00	23.43	C
ATOM	2304	OG	SER	C3063	21.635	-8.265	0.877	1.00	28.48	O
ATOM	2305	C	SER	C3063	23.123	-4.926	1.649	1.00	22.84	C
ATOM	2306	O	SER	C3063	24.001	-4.422	0.947	1.00	21.58	O
ATOM	2307	N	LYS	C3064	22.277	-4.205	2.377	1.00	21.35	N
ATOM	2308	CA	LYS	C3064	22.370	-2.755	2.406	1.00	21.55	C
ATOM	2309	CB	LYS	C3064	21.111	-2.168	3.055	1.00	22.13	C
ATOM	2310	CG	LYS	C3064	19.841	-2.416	2.238	1.00	21.86	C
ATOM	2311	CD	LYS	C3064	18.588	-1.884	2.929	1.00	22.40	C
ATOM	2312	CE	LYS	C3064	18.653	-0.375	3.120	1.00	22.07	C
ATOM	2313	NZ	LYS	C3064	17.579	0.125	4.017	1.00	21.49	N
ATOM	2314	C	LYS	C3064	23.639	-2.341	3.168	1.00	21.95	C
ATOM	2315	O	LYS	C3064	24.295	-1.363	2.812	1.00	22.05	O
ATOM	2316	N	ALA	C3065	23.994	-3.104	4.197	1.00	20.93	N
ATOM	2317	CA	ALA	C3065	25.193	-2.818	4.983	1.00	23.70	C
ATOM	2318	CB	ALA	C3065	25.254	-3.729	6.200	1.00	22.08	C
ATOM	2319	C	ALA	C3065	26.450	-3.010	4.136	1.00	25.75	C
ATOM	2320	O	ALA	C3065	27.420	-2.278	4.297	1.00	25.29	O
ATOM	2321	N	MET	C3066	26.433	-4.008	3.255	1.00	27.80	N
ATOM	2322	CA	MET	C3066	27.569	-4.278	2.375	1.00	31.06	C
ATOM	2323	CB	MET	C3066	27.386	-5.616	1.649	1.00	30.03	C
ATOM	2324	CG	MET	C3066	27.666	-6.848	2.495	1.00	30.77	C
ATOM	2325	SD	MET	C3066	29.395	-6.944	3.059	1.00	31.09	S
ATOM	2326	CE	MET	C3066	30.192	-7.610	1.576	1.00	29.01	C
ATOM	2327	C	MET	C3066	27.683	-3.159	1.342	1.00	33.44	C
ATOM	2328	O	MET	C3066	28.778	-2.782	0.940	1.00	32.94	O
ATOM	2329	N	GLY	C3067	26.539	-2.634	0.918	1.00	36.57	N
ATOM	2330	CA	GLY	C3067	26.542	-1.565	-0.059	1.00	40.47	C
ATOM	2331	C	GLY	C3067	26.101	-2.041	-1.426	1.00	43.36	C
ATOM	2332	O	GLY	C3067	26.602	-1.573	-2.447	1.00	44.87	O
ATOM	2333	N	THR	C3068	25.161	-2.976	-1.447	0.05	44.27	N
ATOM	2334	CA	THR	C3068	24.650	-3.506	-2.701	0.05	45.40	C
ATOM	2335	CB	THR	C3068	25.521	-4.680	-3.201	0.05	45.40	C
ATOM	2336	OG1	THR	C3068	25.018	-5.147	-4.459	0.05	45.48	O
ATOM	2337	CG2	THR	C3068	25.518	-5.821	-2.193	0.05	45.43	C
ATOM	2338	C	THR	C3068	23.212	-3.973	-2.507	0.05	46.15	C
ATOM	2339	O	THR	C3068	22.452	-3.355	-1.761	0.05	46.24	O
ATOM	2340	N	GLY	C3069	22.839	-5.058	-3.175	0.05	47.05	N
ATOM	2341	CA	GLY	C3069	21.488	-5.567	-3.043	0.05	48.19	C
ATOM	2342	C	GLY	C3069	21.341	-6.984	-3.555	0.05	48.95	C
ATOM	2343	O	GLY	C3069	22.322	-7.627	-3.927	0.05	49.00	O
ATOM	2344	N	ILE	C3070	20.106	-7.471	-3.569	0.05	49.77	N
ATOM	2345	CA	ILE	C3070	19.809	-8.817	-4.038	0.05	50.58	C
ATOM	2346	CB	ILE	C3070	18.311	-9.155	-3.800	0.05	50.80	C
ATOM	2347	CG2	ILE	C3070	17.434	-8.193	-4.584	0.05	51.01	C
ATOM	2348	CG1	ILE	C3070	18.011	-10.600	-4.205	0.05	51.05	C
ATOM	2349	CD1	ILE	C3070	18.852	-11.631	-3.486	0.05	51.19	C
ATOM	2350	C	ILE	C3070	20.140	-8.927	-5.528	0.05	50.91	C
ATOM	2351	O	ILE	C3070	20.642	-7.977	-6.126	0.05	50.98	O
ATOM	2352	N	SER	C3071	19.868	-10.093	-6.108	0.05	51.31	N
ATOM	2353	CA	SER	C3071	20.112	-10.372	-7.522	0.05	51.63	C
ATOM	2354	CB	SER	C3071	19.393	-9.349	-8.411	0.05	51.73	C
ATOM	2355	OG	SER	C3071	20.018	-8.080	-8.363	0.05	51.85	O
ATOM	2356	C	SER	C3071	21.592	-10.420	-7.891	0.05	51.76	C
ATOM	2357	O	SER	C3071	21.967	-11.053	-8.878	0.05	51.87	O
ATOM	2358	N	LYS	C3072	22.433	-9.755	-7.106	0.05	51.86	N

ATOM	2359	CA	LYS	C3072	23.867	-9.751	-7.374	0.05	51.85	C
ATOM	2360	CB	LYS	C3072	24.396	-8.312	-7.449	0.05	52.23	C
ATOM	2361	CG	LYS	C3072	24.392	-7.543	-6.131	0.05	52.70	C
ATOM	2362	CD	LYS	C3072	25.580	-7.907	-5.245	0.05	53.07	C
ATOM	2363	CE	LYS	C3072	26.905	-7.581	-5.920	0.05	53.33	C
ATOM	2364	NZ	LYS	C3072	27.022	-6.134	-6.253	0.05	53.48	N
ATOM	2365	C	LYS	C3072	24.606	-10.529	-6.292	0.05	51.55	C
ATOM	2366	O	LYS	C3072	25.643	-11.140	-6.550	0.05	51.64	O
ATOM	2367	N	LEU	C3073	24.062	-10.500	-5.080	0.05	51.11	N
ATOM	2368	CA	LEU	C3073	24.660	-11.204	-3.953	0.05	50.57	C
ATOM	2369	CB	LEU	C3073	24.615	-10.328	-2.699	0.05	50.79	C
ATOM	2370	CG	LEU	C3073	25.349	-10.863	-1.467	0.05	50.92	C
ATOM	2371	CD1	LEU	C3073	26.830	-11.010	-1.783	0.05	51.03	C
ATOM	2372	CD2	LEU	C3073	25.145	-9.917	-0.294	0.05	50.94	C
ATOM	2373	C	LEU	C3073	23.893	-12.498	-3.707	0.05	50.00	C
ATOM	2374	O	LEU	C3073	24.444	-13.473	-3.198	0.05	50.02	O
ATOM	2375	N	GLY	C3074	22.616	-12.492	-4.076	1.00	49.38	N
ATOM	2376	CA	GLY	C3074	21.779	-13.663	-3.899	1.00	48.02	C
ATOM	2377	C	GLY	C3074	21.479	-13.986	-2.447	1.00	46.92	C
ATOM	2378	O	GLY	C3074	22.391	-14.150	-1.642	1.00	46.73	O
ATOM	2379	N	PHE	C3075	20.197	-14.076	-2.107	1.00	46.04	N
ATOM	2380	CA	PHE	C3075	19.804	-14.393	-0.741	1.00	45.56	C
ATOM	2381	CB	PHE	C3075	18.305	-14.137	-0.544	1.00	45.22	C
ATOM	2382	CG	PHE	C3075	17.969	-12.705	-0.211	1.00	44.58	C
ATOM	2383	CD1	PHE	C3075	18.961	-11.724	-0.187	1.00	44.91	C
ATOM	2384	CD2	PHE	C3075	16.661	-12.337	0.082	1.00	43.89	C
ATOM	2385	CE1	PHE	C3075	18.654	-10.397	0.127	1.00	45.66	C
ATOM	2386	CE2	PHE	C3075	16.340	-11.016	0.398	1.00	44.22	C
ATOM	2387	CZ	PHE	C3075	17.338	-10.042	0.420	1.00	44.74	C
ATOM	2388	C	PHE	C3075	20.147	-15.841	-0.407	1.00	45.42	C
ATOM	2389	O	PHE	C3075	20.099	-16.251	0.754	1.00	44.99	O
ATOM	2390	N	GLN	C3076	20.503	-16.607	-1.433	1.00	44.83	N
ATOM	2391	CA	GLN	C3076	20.874	-18.006	-1.256	1.00	44.38	C
ATOM	2392	CB	GLN	C3076	20.766	-18.749	-2.589	1.00	44.21	C
ATOM	2393	CG	GLN	C3076	19.360	-19.192	-2.890	1.00	45.02	C
ATOM	2394	CD	GLN	C3076	18.868	-20.206	-1.880	1.00	46.01	C
ATOM	2395	OE1	GLN	C3076	17.666	-20.367	-1.676	1.00	47.94	O
ATOM	2396	NE2	GLN	C3076	19.802	-20.906	-1.245	1.00	45.65	N
ATOM	2397	C	GLN	C3076	22.287	-18.133	-0.706	1.00	43.75	C
ATOM	2398	O	GLN	C3076	22.660	-19.165	-0.149	1.00	44.83	O
ATOM	2399	N	ASP	C3077	23.070	-17.074	-0.862	1.00	43.01	N
ATOM	2400	CA	ASP	C3077	24.442	-17.065	-0.377	1.00	41.11	C
ATOM	2401	CB	ASP	C3077	25.315	-16.254	-1.333	1.00	44.24	C
ATOM	2402	CG	ASP	C3077	25.261	-16.789	-2.756	1.00	45.88	C
ATOM	2403	OD1	ASP	C3077	25.692	-17.943	-2.974	1.00	47.04	O
ATOM	2404	OD2	ASP	C3077	24.777	-16.064	-3.652	1.00	46.86	O
ATOM	2405	C	ASP	C3077	24.493	-16.481	1.028	1.00	38.51	C
ATOM	2406	O	ASP	C3077	25.564	-16.291	1.598	1.00	39.35	O
ATOM	2407	N	LEU	C3078	23.319	-16.194	1.578	1.00	35.03	N
ATOM	2408	CA	LEU	C3078	23.199	-15.649	2.927	1.00	31.01	C
ATOM	2409	CB	LEU	C3078	22.479	-14.296	2.889	1.00	30.66	C
ATOM	2410	CG	LEU	C3078	23.280	-13.026	2.584	1.00	31.31	C
ATOM	2411	CD1	LEU	C3078	24.253	-13.251	1.440	1.00	33.52	C
ATOM	2412	CD2	LEU	C3078	22.303	-11.900	2.254	1.00	30.14	C
ATOM	2413	C	LEU	C3078	22.396	-16.632	3.778	1.00	28.65	C
ATOM	2414	O	LEU	C3078	21.391	-17.178	3.322	1.00	28.16	O
ATOM	2415	N	GLU	C3079	22.839	-16.860	5.009	1.00	25.38	N

ATOM	2416	CA	GLU	C3079	22.138	-17.779	5.895	1.00	24.35	C
ATOM	2417	CB	GLU	C3079	22.794	-19.163	5.869	1.00	24.49	C
ATOM	2418	CG	GLU	C3079	21.999	-20.224	6.616	1.00	24.73	C
ATOM	2419	CD	GLU	C3079	22.653	-21.592	6.558	1.00	26.90	C
ATOM	2420	OE1	GLU	C3079	23.770	-21.740	7.089	1.00	28.68	O
ATOM	2421	OE2	GLU	C3079	22.053	-22.523	5.979	1.00	29.27	O
ATOM	2422	C	GLU	C3079	22.098	-17.267	7.327	1.00	22.68	C
ATOM	2423	O	GLU	C3079	23.123	-16.873	7.883	1.00	22.88	O
ATOM	2424	N	VAL	C3080	20.901	-17.275	7.907	1.00	21.79	N
ATOM	2425	CA	VAL	C3080	20.678	-16.824	9.276	1.00	21.18	C
ATOM	2426	CB	VAL	C3080	19.705	-15.621	9.325	1.00	22.20	C
ATOM	2427	CG1	VAL	C3080	19.404	-15.244	10.777	1.00	20.66	C
ATOM	2428	CG2	VAL	C3080	20.311	-14.435	8.587	1.00	23.11	C
ATOM	2429	C	VAL	C3080	20.064	-17.971	10.060	1.00	20.45	C
ATOM	2430	O	VAL	C3080	18.972	-18.429	9.743	1.00	19.50	O
ATOM	2431	N	LEU	C3081	20.781	-18.441	11.072	1.00	20.00	N
ATOM	2432	CA	LEU	C3081	20.303	-19.540	11.897	1.00	21.15	C
ATOM	2433	CB	LEU	C3081	21.328	-20.686	11.905	1.00	21.34	C
ATOM	2434	CG	LEU	C3081	21.677	-21.275	10.528	1.00	22.27	C
ATOM	2435	CD1	LEU	C3081	22.713	-22.396	10.653	1.00	23.04	C
ATOM	2436	CD2	LEU	C3081	20.400	-21.802	9.884	1.00	24.47	C
ATOM	2437	C	LEU	C3081	20.107	-19.003	13.300	1.00	21.01	C
ATOM	2438	O	LEU	C3081	20.287	-17.811	13.541	1.00	20.54	O
ATOM	2439	N	ASN	C3082	19.732	-19.881	14.220	1.00	21.50	N
ATOM	2440	CA	ASN	C3082	19.530	-19.494	15.608	1.00	22.77	C
ATOM	2441	CB	ASN	C3082	18.089	-19.783	16.020	1.00	23.53	C
ATOM	2442	CG	ASN	C3082	17.099	-18.880	15.310	1.00	25.44	C
ATOM	2443	OD1	ASN	C3082	16.907	-17.731	15.698	1.00	25.60	O
ATOM	2444	ND2	ASN	C3082	16.488	-19.388	14.247	1.00	27.37	N
ATOM	2445	C	ASN	C3082	20.499	-20.258	16.499	1.00	22.68	C
ATOM	2446	O	ASN	C3082	20.629	-21.478	16.380	1.00	21.84	O
ATOM	2447	N	ASN	C3083	21.191	-19.541	17.382	1.00	23.99	N
ATOM	2448	CA	ASN	C3083	22.137	-20.187	18.282	1.00	23.34	C
ATOM	2449	CB	ASN	C3083	23.141	-19.170	18.840	1.00	24.83	C
ATOM	2450	CG	ASN	C3083	22.474	-18.019	19.575	1.00	25.31	C
ATOM	2451	OD1	ASN	C3083	21.405	-18.175	20.174	1.00	23.71	O
ATOM	2452	ND2	ASN	C3083	23.116	-16.859	19.550	1.00	26.83	N
ATOM	2453	C	ASN	C3083	21.381	-20.877	19.415	1.00	25.05	C
ATOM	2454	O	ASN	C3083	20.152	-20.876	19.432	1.00	22.22	O
ATOM	2455	N	GLU	C3084	22.108	-21.460	20.365	1.00	27.04	N
ATOM	2456	CA	GLU	C3084	21.472	-22.174	21.466	1.00	29.78	C
ATOM	2457	CB	GLU	C3084	22.517	-22.954	22.275	1.00	32.58	C
ATOM	2458	CG	GLU	C3084	23.715	-22.141	22.711	1.00	36.99	C
ATOM	2459	CD	GLU	C3084	24.857	-22.184	21.707	1.00	41.57	C
ATOM	2460	OE1	GLU	C3084	24.647	-21.812	20.529	1.00	42.03	O
ATOM	2461	OE2	GLU	C3084	25.972	-22.590	22.107	1.00	43.80	O
ATOM	2462	C	GLU	C3084	20.638	-21.294	22.396	1.00	30.13	C
ATOM	2463	O	GLU	C3084	19.766	-21.796	23.111	1.00	30.37	O
ATOM	2464	N	ARG	C3085	20.901	-19.991	22.401	1.00	28.98	N
ATOM	2465	CA	ARG	C3085	20.119	-19.088	23.238	1.00	30.28	C
ATOM	2466	CB	ARG	C3085	20.976	-17.912	23.716	1.00	31.17	C
ATOM	2467	CG	ARG	C3085	22.055	-18.340	24.705	1.00	34.80	C
ATOM	2468	CD	ARG	C3085	23.056	-17.237	24.995	1.00	37.35	C
ATOM	2469	NE	ARG	C3085	24.367	-17.801	25.310	1.00	40.35	N
ATOM	2470	CZ	ARG	C3085	24.634	-18.518	26.396	1.00	40.77	C
ATOM	2471	NH1	ARG	C3085	23.681	-18.757	27.285	1.00	42.29	N
ATOM	2472	NH2	ARG	C3085	25.852	-19.007	26.587	1.00	41.71	N

ATOM	2473	C	ARG	C3085	18.918	-18.597	22.438	1.00	29.32	C
ATOM	2474	O	ARG	C3085	18.112	-17.806	22.923	1.00	30.16	O
ATOM	2475	N	GLY	C3086	18.805	-19.086	21.207	1.00	27.92	N
ATOM	2476	CA	GLY	C3086	17.690	-18.714	20.350	1.00	26.11	C
ATOM	2477	C	GLY	C3086	17.893	-17.452	19.530	1.00	25.66	C
ATOM	2478	O	GLY	C3086	17.005	-17.044	18.782	1.00	26.33	O
ATOM	2479	N	ALA	C3087	19.061	-16.831	19.654	1.00	23.88	N
ATOM	2480	CA	ALA	C3087	19.328	-15.613	18.914	1.00	22.63	C
ATOM	2481	CB	ALA	C3087	20.408	-14.797	19.610	1.00	21.67	C
ATOM	2482	C	ALA	C3087	19.742	-15.893	17.478	1.00	22.49	C
ATOM	2483	O	ALA	C3087	20.515	-16.808	17.210	1.00	22.63	O
ATOM	2484	N	PRO	C3088	19.220	-15.098	16.532	1.00	21.73	N
ATOM	2485	CD	PRO	C3088	18.185	-14.068	16.740	1.00	21.19	C
ATOM	2486	CA	PRO	C3088	19.536	-15.244	15.112	1.00	20.08	C
ATOM	2487	CB	PRO	C3088	18.434	-14.435	14.435	1.00	22.01	C
ATOM	2488	CG	PRO	C3088	18.196	-13.325	15.412	1.00	23.33	C
ATOM	2489	C	PRO	C3088	20.931	-14.689	14.822	1.00	20.77	C
ATOM	2490	O	PRO	C3088	21.360	-13.704	15.434	1.00	19.53	O
ATOM	2491	N	TYR	C3089	21.647	-15.327	13.903	1.00	18.65	N
ATOM	2492	CA	TYR	C3089	22.986	-14.869	13.548	1.00	18.94	C
ATOM	2493	CB	TYR	C3089	24.015	-15.410	14.557	1.00	19.72	C
ATOM	2494	CG	TYR	C3089	24.295	-16.891	14.434	1.00	20.97	C
ATOM	2495	CD1	TYR	C3089	25.313	-17.360	13.600	1.00	21.58	C
ATOM	2496	CE1	TYR	C3089	25.549	-18.721	13.448	1.00	21.20	C
ATOM	2497	CD2	TYR	C3089	23.521	-17.826	15.118	1.00	21.44	C
ATOM	2498	CE2	TYR	C3089	23.748	-19.193	14.974	1.00	21.49	C
ATOM	2499	CZ	TYR	C3089	24.764	-19.630	14.133	1.00	20.90	C
ATOM	2500	OH	TYR	C3089	24.980	-20.972	13.961	1.00	21.13	O
ATOM	2501	C	TYR	C3089	23.310	-15.356	12.142	1.00	19.33	C
ATOM	2502	O	TYR	C3089	22.695	-16.305	11.658	1.00	18.04	O
ATOM	2503	N	PHE	C3090	24.252	-14.694	11.476	1.00	21.68	N
ATOM	2504	CA	PHE	C3090	24.644	-15.095	10.129	1.00	22.43	C
ATOM	2505	CB	PHE	C3090	25.224	-13.921	9.343	1.00	21.81	C
ATOM	2506	CG	PHE	C3090	24.187	-13.057	8.686	1.00	22.97	C
ATOM	2507	CD1	PHE	C3090	23.627	-11.980	9.364	1.00	22.58	C
ATOM	2508	CD2	PHE	C3090	23.774	-13.317	7.382	1.00	22.20	C
ATOM	2509	CE1	PHE	C3090	22.670	-11.172	8.752	1.00	21.60	C
ATOM	2510	CE2	PHE	C3090	22.815	-12.512	6.762	1.00	21.04	C
ATOM	2511	CZ	PHE	C3090	22.267	-11.439	7.453	1.00	20.05	C
ATOM	2512	C	PHE	C3090	25.681	-16.201	10.185	1.00	23.74	C
ATOM	2513	O	PHE	C3090	26.804	-15.992	10.642	1.00	23.80	O
ATOM	2514	N	SER	C3091	25.291	-17.381	9.727	1.00	25.13	N
ATOM	2515	CA	SER	C3091	26.186	-18.522	9.707	1.00	24.76	C
ATOM	2516	CB	SER	C3091	25.378	-19.805	9.790	1.00	25.31	C
ATOM	2517	OG	SER	C3091	24.465	-19.856	8.709	1.00	25.46	O
ATOM	2518	C	SER	C3091	26.959	-18.493	8.393	1.00	25.15	C
ATOM	2519	O	SER	C3091	28.036	-19.075	8.285	1.00	24.95	O
ATOM	2520	N	GLN	C3092	26.398	-17.806	7.401	1.00	25.28	N
ATOM	2521	CA	GLN	C3092	27.012	-17.701	6.079	1.00	26.50	C
ATOM	2522	CB	GLN	C3092	26.414	-18.759	5.150	1.00	29.33	C
ATOM	2523	CG	GLN	C3092	26.948	-18.723	3.728	1.00	33.15	C
ATOM	2524	CD	GLN	C3092	28.353	-19.271	3.638	1.00	35.44	C
ATOM	2525	OE1	GLN	C3092	29.292	-18.711	4.204	1.00	36.58	O
ATOM	2526	NE2	GLN	C3092	28.503	-20.384	2.935	1.00	37.04	N
ATOM	2527	C	GLN	C3092	26.780	-16.323	5.465	1.00	25.49	C
ATOM	2528	O	GLN	C3092	25.637	-15.871	5.365	1.00	24.76	O
ATOM	2529	N	ALA	C3093	27.864	-15.674	5.042	1.00	24.56	N

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ATOM	2530	CA	ALA	C3093	27.801	-14.350	4.422	1.00	24.82	C
ATOM	2531	CB	ALA	C3093	27.400	-13.302	5.451	1.00	24.36	C
ATOM	2532	C	ALA	C3093	29.152	-13.978	3.808	1.00	24.47	C
ATOM	2533	O	ALA	C3093	30.200	-14.284	4.365	1.00	24.58	O
ATOM	2534	N	PRO	C3094	29.137	-13.289	2.654	1.00	25.93	N
ATOM	2535	CD	PRO	C3094	27.920	-12.815	1.965	1.00	24.23	C
ATOM	2536	CA	PRO	C3094	30.345	-12.860	1.935	1.00	25.56	C
ATOM	2537	CB	PRO	C3094	29.788	-12.404	0.592	1.00	26.20	C
ATOM	2538	CG	PRO	C3094	28.472	-11.792	0.997	1.00	26.19	C
ATOM	2539	C	PRO	C3094	31.098	-11.744	2.658	1.00	26.12	C
ATOM	2540	O	PRO	C3094	31.403	-10.703	2.077	1.00	25.63	O
ATOM	2541	N	PHE	C3095	31.404	-11.971	3.930	1.00	26.90	N
ATOM	2542	CA	PHE	C3095	32.098	-10.977	4.739	1.00	26.88	C
ATOM	2543	CB	PHE	C3095	31.068	-10.004	5.331	1.00	26.61	C
ATOM	2544	CG	PHE	C3095	31.665	-8.923	6.179	1.00	26.50	C
ATOM	2545	CD1	PHE	C3095	31.491	-8.931	7.559	1.00	25.34	C
ATOM	2546	CD2	PHE	C3095	32.406	-7.895	5.601	1.00	26.22	C
ATOM	2547	CE1	PHE	C3095	32.043	-7.937	8.350	1.00	24.07	C
ATOM	2548	CE2	PHE	C3095	32.964	-6.895	6.384	1.00	25.18	C
ATOM	2549	CZ	PHE	C3095	32.781	-6.917	7.764	1.00	26.71	C
ATOM	2550	C	PHE	C3095	32.830	-11.726	5.841	1.00	27.07	C
ATOM	2551	O	PHE	C3095	32.234	-12.547	6.527	1.00	28.82	O
ATOM	2552	N	SER	C3096	34.119	-11.450	6.013	1.00	27.08	N
ATOM	2553	CA	SER	C3096	34.907	-12.153	7.022	1.00	26.87	C
ATOM	2554	CB	SER	C3096	36.287	-12.488	6.457	1.00	27.85	C
ATOM	2555	OG	SER	C3096	36.967	-11.315	6.073	1.00	29.01	O
ATOM	2556	C	SER	C3096	35.072	-11.446	8.364	1.00	27.60	C
ATOM	2557	O	SER	C3096	35.753	-11.957	9.251	1.00	28.27	O
ATOM	2558	N	GLY	C3097	34.466	-10.271	8.513	1.00	26.02	N
ATOM	2559	CA	GLY	C3097	34.559	-9.558	9.775	1.00	25.74	C
ATOM	2560	C	GLY	C3097	33.406	-9.991	10.664	1.00	26.75	C
ATOM	2561	O	GLY	C3097	32.796	-11.029	10.422	1.00	26.07	O
ATOM	2562	N	LYS	C3098	33.084	-9.202	11.682	1.00	25.99	N
ATOM	2563	CA	LYS	C3098	31.985	-9.559	12.572	1.00	26.80	C
ATOM	2564	CB	LYS	C3098	32.302	-9.106	13.998	1.00	28.83	C
ATOM	2565	CG	LYS	C3098	33.742	-9.410	14.383	1.00	33.82	C
ATOM	2566	CD	LYS	C3098	34.014	-9.227	15.860	1.00	37.34	C
ATOM	2567	CE	LYS	C3098	33.574	-10.444	16.652	1.00	39.78	C
ATOM	2568	NZ	LYS	C3098	33.986	-10.326	18.084	1.00	40.81	N
ATOM	2569	C	LYS	C3098	30.676	-8.944	12.095	1.00	25.06	C
ATOM	2570	O	LYS	C3098	30.633	-7.785	11.670	1.00	24.85	O
ATOM	2571	N	ILE	C3099	29.611	-9.737	12.152	1.00	22.88	N
ATOM	2572	CA	ILE	C3099	28.292	-9.286	11.730	1.00	20.01	C
ATOM	2573	CB	ILE	C3099	27.688	-10.246	10.687	1.00	19.89	C
ATOM	2574	CG2	ILE	C3099	26.373	-9.674	10.150	1.00	15.87	C
ATOM	2575	CG1	ILE	C3099	28.686	-10.474	9.548	1.00	18.98	C
ATOM	2576	CD1	ILE	C3099	28.241	-11.543	8.561	1.00	19.71	C
ATOM	2577	C	ILE	C3099	27.364	-9.243	12.941	1.00	20.05	C
ATOM	2578	O	ILE	C3099	26.967	-10.289	13.459	1.00	21.97	O
ATOM	2579	N	TRP	C3100	27.032	-8.038	13.398	1.00	18.21	N
ATOM	2580	CA	TRP	C3100	26.140	-7.880	14.541	1.00	17.20	C
ATOM	2581	CB	TRP	C3100	26.570	-6.678	15.383	1.00	17.48	C
ATOM	2582	CG	TRP	C3100	27.959	-6.851	15.948	1.00	17.00	C
ATOM	2583	CD2	TRP	C3100	28.323	-7.642	17.085	1.00	16.80	C
ATOM	2584	CE2	TRP	C3100	29.724	-7.538	17.237	1.00	18.05	C
ATOM	2585	CE3	TRP	C3100	27.599	-8.431	17.992	1.00	19.31	C
ATOM	2586	CD1	TRP	C3100	29.119	-6.316	15.465	1.00	17.86	C

ATOM	2587	NE1	TRP	C3100	30.188	-6.724	16.236	1.00	18.87	N
ATOM	2588	CZ2	TRP	C3100	30.417	-8.192	18.263	1.00	19.19	C
ATOM	2589	CZ3	TRP	C3100	28.290	-9.082	19.012	1.00	19.20	C
ATOM	2590	CH2	TRP	C3100	29.687	-8.955	19.136	1.00	17.94	C
ATOM	2591	C	TRP	C3100	24.717	-7.699	14.018	1.00	17.56	C
ATOM	2592	O	TRP	C3100	24.365	-6.656	13.461	1.00	18.14	O
ATOM	2593	N	LEU	C3101	23.916	-8.742	14.191	1.00	17.00	N
ATOM	2594	CA	LEU	C3101	22.540	-8.764	13.725	1.00	16.11	C
ATOM	2595	CB	LEU	C3101	22.321	-9.991	12.837	1.00	16.56	C
ATOM	2596	CG	LEU	C3101	20.875	-10.417	12.559	1.00	16.77	C
ATOM	2597	CD1	LEU	C3101	20.194	-9.413	11.625	1.00	15.60	C
ATOM	2598	CD2	LEU	C3101	20.883	-11.809	11.939	1.00	18.41	C
ATOM	2599	C	LEU	C3101	21.525	-8.811	14.852	1.00	16.81	C
ATOM	2600	O	LEU	C3101	21.746	-9.435	15.890	1.00	14.02	O
ATOM	2601	N	SER	C3102	20.410	-8.128	14.638	1.00	15.53	N
ATOM	2602	CA	SER	C3102	19.316	-8.151	15.588	1.00	14.91	C
ATOM	2603	CB	SER	C3102	19.424	-7.035	16.619	1.00	14.40	C
ATOM	2604	OG	SER	C3102	18.483	-7.263	17.657	1.00	15.41	O
ATOM	2605	C	SER	C3102	18.052	-7.981	14.761	1.00	14.92	C
ATOM	2606	O	SER	C3102	18.020	-7.195	13.805	1.00	14.51	O
ATOM	2607	N	ILE	C3103	17.023	-8.734	15.129	1.00	14.41	N
ATOM	2608	CA	ILE	C3103	15.744	-8.710	14.437	1.00	15.86	C
ATOM	2609	CB	ILE	C3103	15.490	-10.043	13.668	1.00	16.91	C
ATOM	2610	CG2	ILE	C3103	14.171	-9.958	12.880	1.00	18.33	C
ATOM	2611	CG1	ILE	C3103	16.665	-10.353	12.737	1.00	18.54	C
ATOM	2612	CD1	ILE	C3103	16.557	-11.729	12.042	1.00	20.00	C
ATOM	2613	C	ILE	C3103	14.657	-8.608	15.495	1.00	17.43	C
ATOM	2614	O	ILE	C3103	14.805	-9.148	16.594	1.00	17.45	O
ATOM	2615	N	SER	C3104	13.566	-7.929	15.157	1.00	18.17	N
ATOM	2616	CA	SER	C3104	12.439	-7.798	16.070	1.00	20.57	C
ATOM	2617	CB	SER	C3104	12.610	-6.583	16.986	1.00	19.79	C
ATOM	2618	OG	SER	C3104	11.596	-6.571	17.981	1.00	23.17	O
ATOM	2619	C	SER	C3104	11.188	-7.645	15.214	1.00	22.21	C
ATOM	2620	O	SER	C3104	11.269	-7.301	14.033	1.00	22.47	O
ATOM	2621	N	HIS	C3105	10.028	-7.889	15.796	1.00	23.30	N
ATOM	2622	CA	HIS	C3105	8.818	-7.784	15.009	1.00	25.44	C
ATOM	2623	CB	HIS	C3105	8.597	-9.083	14.241	1.00	27.72	C
ATOM	2624	CG	HIS	C3105	8.509	-10.287	15.125	1.00	29.50	C
ATOM	2625	CD2	HIS	C3105	7.438	-10.938	15.639	1.00	33.02	C
ATOM	2626	ND1	HIS	C3105	9.622	-10.934	15.615	1.00	32.99	N
ATOM	2627	CE1	HIS	C3105	9.242	-11.933	16.393	1.00	34.27	C
ATOM	2628	NE2	HIS	C3105	7.922	-11.956	16.424	1.00	33.98	N
ATOM	2629	C	HIS	C3105	7.565	-7.489	15.805	1.00	26.04	C
ATOM	2630	O	HIS	C3105	7.499	-7.729	17.009	1.00	23.14	O
ATOM	2631	N	THR	C3106	6.575	-6.972	15.086	1.00	28.54	N
ATOM	2632	CA	THR	C3106	5.261	-6.652	15.613	1.00	30.04	C
ATOM	2633	CB	THR	C3106	4.855	-5.209	15.300	1.00	31.60	C
ATOM	2634	OG1	THR	C3106	4.804	-5.030	13.878	1.00	31.75	O
ATOM	2635	CG2	THR	C3106	5.848	-4.231	15.905	1.00	30.63	C
ATOM	2636	C	THR	C3106	4.332	-7.576	14.840	1.00	30.05	C
ATOM	2637	O	THR	C3106	4.792	-8.451	14.101	1.00	31.00	O
ATOM	2638	N	ASP	C3107	3.031	-7.374	14.987	1.00	31.29	N
ATOM	2639	CA	ASP	C3107	2.056	-8.206	14.296	1.00	32.30	C
ATOM	2640	CB	ASP	C3107	0.674	-8.033	14.934	1.00	36.82	C
ATOM	2641	CG	ASP	C3107	0.596	-8.612	16.327	1.00	40.78	C
ATOM	2642	OD1	ASP	C3107	-0.205	-8.097	17.136	1.00	44.76	O
ATOM	2643	OD2	ASP	C3107	1.319	-9.591	16.612	1.00	44.36	O

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ATOM	2644	C	ASP	C3107	1.959	-7.890	12.807	1.00	31.24	C
ATOM	2645	O	ASP	C3107	1.521	-8.729	12.026	1.00	32.84	O
ATOM	2646	N	GLN	C3108	2.374	-6.690	12.410	1.00	28.20	N
ATOM	2647	CA	GLN	C3108	2.284	-6.289	11.009	1.00	27.03	C
ATOM	2648	CB	GLN	C3108	1.590	-4.928	10.877	0.05	26.57	C
ATOM	2649	CG	GLN	C3108	0.284	-4.788	11.626	0.05	26.25	C
ATOM	2650	CD	GLN	C3108	0.486	-4.733	13.121	0.05	26.05	C
ATOM	2651	OE1	GLN	C3108	1.220	-3.887	13.631	0.05	25.96	O
ATOM	2652	NE2	GLN	C3108	-0.165	-5.636	13.834	0.05	25.84	N
ATOM	2653	C	GLN	C3108	3.607	-6.204	10.264	1.00	25.37	C
ATOM	2654	O	GLN	C3108	3.624	-6.210	9.032	1.00	24.85	O
ATOM	2655	N	PHE	C3109	4.716	-6.098	10.987	1.00	24.20	N
ATOM	2656	CA	PHE	C3109	5.996	-5.994	10.299	1.00	23.19	C
ATOM	2657	CB	PHE	C3109	6.210	-4.548	9.827	1.00	24.65	C
ATOM	2658	CG	PHE	C3109	6.268	-3.541	10.947	1.00	26.19	C
ATOM	2659	CD1	PHE	C3109	7.406	-3.421	11.738	1.00	26.36	C
ATOM	2660	CD2	PHE	C3109	5.181	-2.714	11.211	1.00	27.63	C
ATOM	2661	CE1	PHE	C3109	7.464	-2.490	12.780	1.00	26.39	C
ATOM	2662	CE2	PHE	C3109	5.225	-1.780	12.249	1.00	28.63	C
ATOM	2663	CZ	PHE	C3109	6.371	-1.669	13.036	1.00	28.60	C
ATOM	2664	C	PHE	C3109	7.191	-6.459	11.116	1.00	21.14	C
ATOM	2665	O	PHE	C3109	7.100	-6.648	12.328	1.00	19.22	O
ATOM	2666	N	VAL	C3110	8.308	-6.650	10.425	1.00	19.26	N
ATOM	2667	CA	VAL	C3110	9.550	-7.083	11.052	1.00	19.85	C
ATOM	2668	CB	VAL	C3110	10.027	-8.438	10.471	1.00	21.25	C
ATOM	2669	CG1	VAL	C3110	11.360	-8.859	11.101	1.00	23.25	C
ATOM	2670	CG2	VAL	C3110	8.980	-9.488	10.719	1.00	25.17	C
ATOM	2671	C	VAL	C3110	10.604	-6.039	10.737	1.00	19.21	C
ATOM	2672	O	VAL	C3110	10.503	-5.345	9.725	1.00	19.53	O
ATOM	2673	N	THR	C3111	11.603	-5.925	11.608	1.00	19.09	N
ATOM	2674	CA	THR	C3111	12.695	-4.984	11.409	1.00	20.72	C
ATOM	2675	CB	THR	C3111	12.608	-3.765	12.368	1.00	22.75	C
ATOM	2676	OG1	THR	C3111	12.635	-4.216	13.730	1.00	26.03	O
ATOM	2677	CG2	THR	C3111	11.322	-2.976	12.124	1.00	22.96	C
ATOM	2678	C	THR	C3111	13.993	-5.725	11.684	1.00	20.16	C
ATOM	2679	O	THR	C3111	14.024	-6.664	12.481	1.00	20.27	O
ATOM	2680	N	ALA	C3112	15.060	-5.312	11.010	1.00	19.72	N
ATOM	2681	CA	ALA	C3112	16.361	-5.935	11.201	1.00	19.77	C
ATOM	2682	CB	ALA	C3112	16.617	-6.975	10.109	1.00	18.61	C
ATOM	2683	C	ALA	C3112	17.441	-4.868	11.172	1.00	19.41	C
ATOM	2684	O	ALA	C3112	17.337	-3.885	10.442	1.00	22.32	O
ATOM	2685	N	SER	C3113	18.474	-5.062	11.980	1.00	20.21	N
ATOM	2686	CA	SER	C3113	19.579	-4.124	12.045	1.00	18.53	C
ATOM	2687	CB	SER	C3113	19.506	-3.298	13.327	1.00	19.50	C
ATOM	2688	OG	SER	C3113	20.510	-2.293	13.328	1.00	19.90	O
ATOM	2689	C	SER	C3113	20.888	-4.895	12.003	1.00	18.71	C
ATOM	2690	O	SER	C3113	21.084	-5.843	12.767	1.00	16.55	O
ATOM	2691	N	VAL	C3114	21.779	-4.472	11.107	1.00	17.09	N
ATOM	2692	CA	VAL	C3114	23.071	-5.115	10.930	1.00	17.37	C
ATOM	2693	CB	VAL	C3114	23.145	-5.842	9.563	1.00	16.61	C
ATOM	2694	CG1	VAL	C3114	24.593	-6.263	9.255	1.00	18.34	C
ATOM	2695	CG2	VAL	C3114	22.244	-7.050	9.576	1.00	16.94	C
ATOM	2696	C	VAL	C3114	24.216	-4.116	10.993	1.00	16.94	C
ATOM	2697	O	VAL	C3114	24.145	-3.043	10.408	1.00	16.28	O
ATOM	2698	N	ILE	C3115	25.265	-4.477	11.720	1.00	17.86	N
ATOM	2699	CA	ILE	C3115	26.446	-3.632	11.820	1.00	19.21	C
ATOM	2700	CB	ILE	C3115	26.667	-3.085	13.253	1.00	19.71	C

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ATOM	2701	CG2	ILE	C3115	27.926	-2.217	13.287	1.00	19.20	C
ATOM	2702	CG1	ILE	C3115	25.451	-2.268	13.703	1.00	19.12	C
ATOM	2703	CD1	ILE	C3115	25.573	-1.701	15.110	1.00	20.38	C
ATOM	2704	C	ILE	C3115	27.627	-4.516	11.440	1.00	18.95	C
ATOM	2705	O	ILE	C3115	27.806	-5.589	12.007	1.00	18.31	O
ATOM	2706	N	LEU	C3116	28.409	-4.076	10.457	1.00	19.22	N
ATOM	2707	CA	LEU	C3116	29.578	-4.830	10.021	1.00	20.77	C
ATOM	2708	CB	LEU	C3116	29.696	-4.805	8.493	1.00	20.70	C
ATOM	2709	CG	LEU	C3116	28.445	-5.235	7.703	1.00	19.25	C
ATOM	2710	CD1	LEU	C3116	28.758	-5.249	6.218	1.00	21.02	C
ATOM	2711	CD2	LEU	C3116	27.996	-6.614	8.150	1.00	19.48	C
ATOM	2712	C	LEU	C3116	30.803	-4.182	10.655	1.00	21.44	C
ATOM	2713	O	LEU	C3116	30.996	-2.969	10.554	1.00	21.12	O
ATOM	2714	N	GLU	C3117	31.620	-4.994	11.314	1.00	23.48	N
ATOM	2715	CA	GLU	C3117	32.812	-4.493	11.987	1.00	26.83	C
ATOM	2716	CB	GLU	C3117	32.571	-4.457	13.504	1.00	27.48	C
ATOM	2717	CG	GLU	C3117	33.817	-4.166	14.343	1.00	30.16	C
ATOM	2718	CD	GLU	C3117	33.628	-4.470	15.826	1.00	29.66	C
ATOM	2719	OE1	GLU	C3117	33.182	-5.595	16.158	1.00	29.18	O
ATOM	2720	OE2	GLU	C3117	33.932	-3.585	16.660	1.00	29.22	O
ATOM	2721	C	GLU	C3117	34.048	-5.335	11.680	1.00	28.97	C
ATOM	2722	O	GLU	C3117	33.978	-6.563	11.578	1.00	27.81	O
ATOM	2723	N	GLU	C3118	35.178	-4.657	11.513	1.00	31.18	N
ATOM	2724	CA	GLU	C3118	36.446	-5.323	11.248	1.00	35.42	C
ATOM	2725	CB	GLU	C3118	37.015	-4.880	9.893	1.00	37.41	C
ATOM	2726	CG	GLU	C3118	36.592	-5.772	8.727	1.00	41.62	C
ATOM	2727	CD	GLU	C3118	37.041	-5.248	7.368	1.00	43.91	C
ATOM	2728	OE1	GLU	C3118	38.193	-4.776	7.253	1.00	46.07	O
ATOM	2729	OE2	GLU	C3118	36.242	-5.321	6.409	1.00	44.10	O
ATOM	2730	C	GLU	C3118	37.414	-4.963	12.369	1.00	35.74	C
ATOM	2731	O	GLU	C3118	37.417	-3.784	12.785	1.00	35.88	O
ATOM	2732	OXT	GLU	C3118	38.154	-5.858	12.821	1.00	38.35	O
TER	2733		GLU	C3118						
ATOM	2734	O	HOH	W4002	24.915	17.154	36.149	1.00	24.34	O
ATOM	2735	O	HOH	W4003	1.430	5.412	7.521	1.00	22.65	O
ATOM	2736	O	HOH	W4004	15.230	-11.883	17.512	1.00	29.62	O
ATOM	2737	O	HOH	W4006	20.551	4.946	39.709	1.00	33.21	O
ATOM	2738	O	HOH	W4008	0.497	12.883	37.515	1.00	46.32	O
ATOM	2739	O	HOH	W4009	22.219	1.070	4.722	1.00	20.90	O
ATOM	2740	O	HOH	W4010	23.057	4.216	27.783	1.00	22.10	O
ATOM	2741	O	HOH	W4012	26.158	9.664	6.047	1.00	26.69	O
ATOM	2742	O	HOH	W4013	13.195	-14.652	11.137	1.00	18.24	O
ATOM	2743	O	HOH	W4014	32.126	-19.177	9.562	1.00	41.78	O
ATOM	2744	O	HOH	W4016	11.365	8.055	-2.295	1.00	29.34	O
ATOM	2745	O	HOH	W4017	16.979	7.951	22.041	1.00	23.20	O
ATOM	2746	O	HOH	W4018	20.734	17.150	36.413	1.00	25.86	O
ATOM	2747	O	HOH	W4020	-9.281	-6.387	41.928	1.00	31.95	O
ATOM	2748	O	HOH	W4021	18.869	-12.662	22.632	1.00	30.51	O
ATOM	2749	O	HOH	W4025	18.802	13.286	-2.320	1.00	31.86	O
ATOM	2750	O	HOH	W4026	26.500	16.583	31.811	1.00	52.21	O
ATOM	2751	O	HOH	W4027	6.858	-4.124	3.265	1.00	23.26	O
ATOM	2752	O	HOH	W4028	10.702	1.088	-3.405	1.00	41.81	O
ATOM	2753	O	HOH	W4029	12.811	8.598	27.541	1.00	33.12	O
ATOM	2754	O	HOH	W4031	12.749	-8.445	19.973	1.00	24.85	O
ATOM	2755	O	HOH	W4032	13.535	0.610	2.032	1.00	40.39	O
ATOM	2756	O	HOH	W4033	13.594	8.162	33.675	1.00	30.23	O
ATOM	2757	O	HOH	W4035	10.527	5.028	27.661	1.00	22.20	O

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ATOM	2758	O	HOH W4038	10.071	6.775	24.507	1.00	34.64	O
ATOM	2759	O	HOH W4039	22.581	2.348	2.717	1.00	30.28	O
ATOM	2760	O	HOH W4041	34.765	-18.840	6.665	1.00	52.31	O
ATOM	2761	O	HOH W4042	19.832	10.430	22.362	1.00	30.27	O
ATOM	2762	O	HOH W4043	25.556	-0.749	36.545	1.00	47.38	O
ATOM	2763	O	HOH W4044	1.280	-1.711	37.119	1.00	35.25	O
ATOM	2764	O	HOH W4045	23.055	-3.951	37.102	1.00	29.32	O
ATOM	2765	O	HOH W4046	10.346	9.220	18.446	1.00	31.53	O
ATOM	2766	O	HOH W4047	-3.287	0.403	31.271	1.00	53.94	O
ATOM	2767	O	HOH W4048	4.921	-2.235	2.298	1.00	35.71	O
ATOM	2768	O	HOH W4050	4.512	-5.663	22.584	1.00	34.27	O
ATOM	2769	O	HOH W4051	32.165	-16.448	3.541	1.00	29.46	O
ATOM	2770	O	HOH W4052	17.356	-10.554	17.298	1.00	20.37	O
ATOM	2771	O	HOH W4053	23.079	8.307	36.567	1.00	27.23	O
ATOM	2772	O	HOH W4054	22.333	9.961	24.703	1.00	41.93	O
ATOM	2773	O	HOH W4055	19.848	3.106	3.638	1.00	23.68	O
ATOM	2774	O	HOH W4056	14.228	9.547	2.164	1.00	13.78	O
ATOM	2775	O	HOH W4057	-5.992	9.409	37.088	1.00	40.47	O
ATOM	2776	O	HOH W4058	15.141	2.885	1.432	1.00	32.54	O
ATOM	2777	O	HOH W4059	27.207	3.715	-0.205	1.00	38.02	O
ATOM	2778	O	HOH W4060	4.520	8.617	13.683	1.00	29.66	O
ATOM	2779	O	HOH W4061	-0.534	22.844	0.843	1.00	43.95	O
ATOM	2780	O	HOH W4062	33.271	0.399	4.561	1.00	41.51	O
ATOM	2781	O	HOH W4063	10.750	-9.990	18.523	1.00	37.79	O
ATOM	2782	O	HOH W4065	35.003	2.841	10.072	1.00	34.95	O
ATOM	2783	O	HOH W4066	15.619	13.987	20.059	1.00	51.87	O
ATOM	2784	O	HOH W4067	30.322	-16.861	5.985	1.00	25.67	O
ATOM	2785	O	HOH W4068	-3.928	16.855	6.776	1.00	37.28	O
ATOM	2786	O	HOH W4069	20.489	9.067	39.451	1.00	48.83	O
ATOM	2787	O	HOH W4070	38.865	-2.991	24.079	1.00	52.94	O
ATOM	2788	O	HOH W4071	18.289	12.534	22.275	1.00	32.83	O
ATOM	2789	O	HOH W4072	16.738	0.024	14.519	1.00	34.01	O
ATOM	2790	O	HOH W4073	1.959	-19.500	14.371	1.00	40.61	O
ATOM	2791	O	HOH W4074	1.805	-19.989	7.096	1.00	40.73	O
ATOM	2792	O	HOH W4075	15.612	10.434	34.742	1.00	32.10	O
ATOM	2793	O	HOH W4076	13.088	0.232	13.391	1.00	37.71	O
ATOM	2794	O	HOH W4077	-3.125	13.706	3.280	1.00	34.62	O
ATOM	2795	O	HOH W4078	2.257	8.002	15.256	1.00	30.49	O
ATOM	2796	O	HOH W4079	1.805	3.820	14.707	1.00	34.86	O
ATOM	2797	O	HOH W4080	5.391	-8.908	-2.363	1.00	35.80	O
ATOM	2798	O	HOH W4081	13.173	18.130	19.444	1.00	42.58	O
ATOM	2799	O	HOH W4083	3.428	25.760	7.166	1.00	47.46	O
ATOM	2800	O	HOH W4085	19.600	0.144	14.509	1.00	27.27	O
ATOM	2801	O	HOH W4086	17.905	-21.379	25.352	1.00	38.73	O
ATOM	2802	O	HOH W4087	33.360	5.719	22.662	1.00	36.03	O
ATOM	2803	O	HOH W4089	9.617	-0.859	41.147	1.00	32.45	O
ATOM	2804	O	HOH W4090	28.109	-16.115	0.982	1.00	29.92	O
ATOM	2805	O	HOH W4091	38.387	-10.896	9.764	1.00	47.94	O
ATOM	2806	O	HOH W4092	5.988	24.794	8.424	1.00	43.14	O
ATOM	2807	O	HOH W4093	-3.277	6.265	6.376	1.00	35.40	O
ATOM	2808	O	HOH W4094	30.455	10.041	6.941	1.00	32.99	O
ATOM	2809	O	HOH W4095	26.815	0.664	4.954	1.00	27.85	O
ATOM	2810	O	HOH W4096	15.273	23.735	-4.277	1.00	47.73	O
ATOM	2811	O	HOH W4099	26.449	1.509	2.656	1.00	65.15	O
ATOM	2812	O	HOH W4100	0.838	7.963	3.230	1.00	37.27	O
ATOM	2813	O	HOH W4101	29.381	8.723	0.899	1.00	43.02	O
ATOM	2814	O	HOH W4102	40.660	-5.785	23.570	1.00	45.63	O

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ATOM	2815	O	HOH W4103	26.328	6.312	5.240	1.00	53.46	O
ATOM	2816	O	HOH W4104	34.720	1.902	16.155	1.00	43.82	O
ATOM	2817	O	HOH W4105	-7.319	-8.388	40.539	1.00	39.00	O
ATOM	2818	O	HOH W4106	18.869	25.116	1.680	1.00	46.38	O
ATOM	2819	O	HOH W4107	16.340	14.706	24.191	1.00	38.04	O
ATOM	2820	O	HOH W4108	6.923	8.908	27.885	1.00	36.28	O
ATOM	2821	O	HOH W4109	12.525	-11.624	17.355	1.00	34.51	O
ATOM	2822	O	HOH W4110	34.314	-7.049	18.369	1.00	34.61	O
ATOM	2823	O	HOH W4113	38.750	-2.512	27.167	1.00	57.88	O
ATOM	2824	O	HOH W4114	18.115	3.750	1.319	1.00	31.45	O
ATOM	2825	O	HOH W4115	27.875	1.248	31.553	1.00	55.12	O
ATOM	2826	O	HOH W4116	7.683	-21.130	-8.639	1.00	46.38	O
ATOM	2827	O	HOH W4117	-0.188	6.861	39.329	1.00	45.23	O
ATOM	2828	O	HOH W4118	15.597	2.256	13.150	1.00	38.63	O
ATOM	2829	O	HOH W4120	29.648	18.094	28.167	1.00	35.93	O
ATOM	2830	O	HOH W4121	16.930	-20.733	11.766	1.00	37.44	O
ATOM	2831	O	HOH W4122	7.167	-12.636	-7.617	1.00	48.07	O
ATOM	2832	O	HOH W4123	37.628	10.036	12.640	1.00	43.48	O
ATOM	2833	O	HOH W4124	13.082	-13.269	27.306	1.00	52.38	O
ATOM	2834	O	HOH W4125	4.976	-26.696	6.493	1.00	47.37	O
ATOM	2835	O	HOH W4126	2.241	-22.225	15.163	1.00	51.68	O
ATOM	2836	O	HOH W4127	8.988	-10.057	20.455	1.00	50.47	O
ATOM	2837	O	HOH W4128	18.719	-13.639	-6.616	1.00	49.20	O
ATOM	2838	O	HOH W4129	21.651	22.882	0.638	1.00	46.89	O
ATOM	2839	O	HOH W4130	27.239	3.345	29.234	1.00	25.74	O
ATOM	2840	O	HOH W4131	9.016	-8.748	-1.209	1.00	45.62	O
ATOM	2841	O	HOH W4132	13.082	-9.632	37.155	1.00	43.55	O
ATOM	2842	O	HOH W4133	29.378	15.689	6.467	1.00	49.72	O
ATOM	2843	O	HOH W4134	-7.908	-3.988	42.818	1.00	30.81	O
ATOM	2844	O	HOH W4135	3.562	-8.297	27.665	1.00	45.56	O
ATOM	2845	O	HOH W4136	-7.199	-0.161	28.514	1.00	24.59	O
ATOM	2846	O	HOH W4137	31.194	6.207	6.288	1.00	42.31	O
ATOM	2847	O	HOH W4138	19.383	8.002	23.933	1.00	35.57	O
ATOM	2848	O	HOH W4139	-6.335	-8.439	24.417	1.00	47.50	O
ATOM	2849	O	HOH W4140	37.800	-1.901	17.636	1.00	38.42	O
ATOM	2850	O	HOH W4141	36.896	4.279	13.213	1.00	44.41	O
ATOM	2851	O	HOH W4142	18.980	16.923	-5.091	1.00	32.40	O
ATOM	2852	O	HOH W4143	6.338	17.886	-7.468	1.00	44.66	O
ATOM	2853	O	HOH W4144	8.099	9.789	-8.452	1.00	34.29	O
ATOM	2854	O	HOH W4145	22.400	22.185	4.929	1.00	58.51	O
ATOM	2855	O	HOH W4146	23.417	1.724	-2.662	1.00	49.61	O
ATOM	2856	O	HOH W4147	28.353	11.186	5.638	1.00	36.80	O
ATOM	2857	O	HOH W4148	0.018	1.428	9.817	1.00	46.52	O
ATOM	2858	O	HOH W4149	38.727	-0.038	26.083	1.00	50.08	O
ATOM	2859	O	HOH W4150	24.171	-8.880	20.179	1.00	43.36	O
ATOM	2860	O	HOH W4151	-0.768	-7.980	41.105	1.00	48.48	O
ATOM	2861	O	HOH W4152	26.257	-5.046	35.426	1.00	48.00	O
ATOM	2862	O	HOH W4153	35.432	0.075	28.104	1.00	43.89	O
ATOM	2863	O	HOH W4154	35.301	2.870	27.050	1.00	52.24	O
ATOM	2864	O	HOH W4155	-4.097	3.796	17.913	1.00	44.40	O
ATOM	2865	O	HOH W4156	29.195	0.822	3.786	1.00	40.55	O
ATOM	2866	O	HOH W4157	15.774	-2.195	11.976	1.00	39.79	O
ATOM	2867	O	HOH W4158	22.736	4.680	3.551	1.00	24.63	O
ATOM	2868	O	HOH W4159	10.086	-24.038	17.929	1.00	54.44	O
ATOM	2869	O	HOH W4161	37.774	-8.164	11.579	1.00	59.16	O
ATOM	2870	O	HOH W4162	25.882	18.452	33.331	1.00	33.59	O
ATOM	2871	O	HOH W4163	-0.430	0.356	12.041	1.00	45.32	O

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ATOM	2872	O	HOH W4164	-3.073	-7.128	24.073	1.00	45.12	O
ATOM	2873	O	HOH W4165	31.655	13.815	8.848	1.00	29.05	O
ATOM	2874	O	HOH W4166	17.133	8.014	-0.782	1.00	24.81	O
ATOM	2875	O	HOH W4167	11.582	-12.517	13.880	1.00	37.19	O
ATOM	2876	O	HOH W4168	15.057	-15.827	14.902	1.00	25.73	O
ATOM	2877	O	HOH W4169	12.130	-17.876	15.236	1.00	35.36	O
ATOM	2878	O	HOH W4170	7.663	8.075	46.234	1.00	31.45	O
ATOM	2879	O	HOH W4171	8.858	17.412	12.301	1.00	37.47	O
TER	2880		HOH W4171						
END									

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TABLE 5

REMARK coordinates from restrained individual B-factor refinement
 REMARK refinement resolution: 500.0 - 1.90 Å
 REMARK starting r= 0.2427 free_r= 0.2720
 REMARK final r= 0.2425 free_r= 0.2731
 REMARK B rmsd for bonded mainchain atoms= 0.960 target= 1.5
 REMARK B rmsd for bonded sidechain atoms= 1.085 target= 2.0
 REMARK B rmsd for angle mainchain atoms= 1.688 target= 2.0
 REMARK B rmsd for angle sidechain atoms= 1.768 target= 2.5
 REMARK wa= 1.18715
 REMARK rweight=0.298329
 REMARK target= mlf steps= 30
 REMARK sg= C2 a= 120.188 b= 62.273 c= 51.673 alpha= 90 beta= 98.745 gamma= 90
 REMARK parameter file 1 : CNX_TOPPAR:protein_rep.param
 REMARK parameter file 2 : CNX_TOPPAR:water_rep.param
 REMARK parameter file 3 : CNX_TOPPAR:ion.param
 REMARK parameter file 4 : 35-ADP/35-ADP.param
 REMARK molecular structure file: generate.psf
 REMARK input coordinates: minimize.pdb
 REMARK reflection file= ../data/x-ray_data.cv
 REMARK ncs= none
 REMARK B-correction resolution: 6.0 - 1.90
 REMARK initial B-factor correction applied to fobs :
 REMARK B11= 0.036 B22= -2.635 B33= 2.599
 REMARK B12= 0.000 B13= 0.515 B23= 0.000
 REMARK B-factor correction applied to coordinate array B: 0.030
 REMARK bulk solvent: (Mask) density level= 0.369861 e/Å³, B-factor= 96.7512 Å²
 REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
 REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
 REMARK theoretical total number of refl. in resol. range: 29870 (100.0 %)
 REMARK number of unobserved reflections (no entry or |F|=0): 330 (1.1 %)
 REMARK number of reflections rejected: 0 (0.0 %)
 REMARK total number of reflections used: 29540 (98.9 %)
 REMARK number of reflections in working set: 28083 (94.0 %)
 REMARK number of reflections in test set: 1457 (4.9 %)
 REMARK FILENAME="acps 35-ADP.pdb"

REMARK Written by CNX VERSION:2000

ATOM	1	CB	MET	A1003	37.264	5.634	20.230	1.00	26.46	C
ATOM	2	CG	MET	A1003	36.648	6.209	21.498	1.00	29.51	C
ATOM	3	SD	MET	A1003	37.784	7.312	22.398	1.00	33.70	S
ATOM	4	CE	MET	A1003	37.843	8.718	21.291	1.00	32.08	C
ATOM	5	C	MET	A1003	35.048	5.262	19.102	1.00	23.04	C
ATOM	6	O	MET	A1003	35.009	6.245	18.358	1.00	22.46	O
ATOM	7	N	MET	A1003	37.108	4.155	18.256	1.00	24.80	N
ATOM	8	CA	MET	A1003	36.389	4.622	19.479	1.00	24.32	C
ATOM	9	N	ILE	A1004	33.957	4.690	19.606	1.00	22.15	N
ATOM	10	CA	ILE	A1004	32.606	5.202	19.348	1.00	21.16	C
ATOM	11	CB	ILE	A1004	31.535	4.120	19.670	1.00	21.51	C
ATOM	12	CG2	ILE	A1004	30.122	4.710	19.558	1.00	21.66	C
ATOM	13	CG1	ILE	A1004	31.696	2.927	18.722	1.00	21.75	C
ATOM	14	CD1	ILE	A1004	30.823	1.734	19.074	1.00	22.20	C
ATOM	15	C	ILE	A1004	32.361	6.417	20.245	1.00	20.57	C
ATOM	16	O	ILE	A1004	32.773	6.416	21.407	1.00	21.36	O
ATOM	17	N	VAL	A1005	31.705	7.448	19.713	1.00	19.47	N
ATOM	18	CA	VAL	A1005	31.409	8.652	20.492	1.00	18.73	C
ATOM	19	CB	VAL	A1005	32.308	9.852	20.042	1.00	19.66	C
ATOM	20	CG1	VAL	A1005	33.779	9.530	20.319	1.00	20.39	C

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ATOM	21	CG2	VAL	A1005	32.119	10.142	18.562	1.00	20.39	C
ATOM	22	C	VAL	A1005	29.924	9.085	20.502	1.00	17.55	C
ATOM	23	O	VAL	A1005	29.601	10.193	20.940	1.00	16.98	O
ATOM	24	N	GLY	A1006	29.026	8.207	20.041	1.00	16.14	N
ATOM	25	CA	GLY	A1006	27.593	8.513	20.046	1.00	14.83	C
ATOM	26	C	GLY	A1006	26.725	7.566	19.216	1.00	13.78	C
ATOM	27	O	GLY	A1006	27.223	6.982	18.257	1.00	12.47	O
ATOM	28	N	HIS	A1007	25.442	7.409	19.581	1.00	13.88	N
ATOM	29	CA	HIS	A1007	24.495	6.535	18.844	1.00	14.19	C
ATOM	30	CB	HIS	A1007	24.638	5.080	19.332	1.00	14.36	C
ATOM	31	CG	HIS	A1007	23.663	4.115	18.711	1.00	14.94	C
ATOM	32	CD2	HIS	A1007	22.904	3.137	19.266	1.00	15.52	C
ATOM	33	ND1	HIS	A1007	23.410	4.070	17.355	1.00	14.28	N
ATOM	34	CE1	HIS	A1007	22.537	3.108	17.102	1.00	15.47	C
ATOM	35	NE2	HIS	A1007	22.214	2.526	18.245	1.00	15.49	N
ATOM	36	C	HIS	A1007	23.025	7.000	18.999	1.00	13.90	C
ATOM	37	O	HIS	A1007	22.588	7.310	20.115	1.00	13.25	O
ATOM	38	N	GLY	A1008	22.276	7.053	17.888	1.00	13.72	N
ATOM	39	CA	GLY	A1008	20.870	7.476	17.931	1.00	13.61	C
ATOM	40	C	GLY	A1008	19.944	6.833	16.890	1.00	13.86	C
ATOM	41	O	GLY	A1008	20.402	6.498	15.795	1.00	13.86	O
ATOM	42	N	ILE	A1009	18.653	6.649	17.218	1.00	13.29	N
ATOM	43	CA	ILE	A1009	17.672	6.046	16.281	1.00	13.44	C
ATOM	44	CB	ILE	A1009	17.342	4.554	16.639	1.00	14.13	C
ATOM	45	CG2	ILE	A1009	18.619	3.696	16.642	1.00	13.71	C
ATOM	46	CG1	ILE	A1009	16.638	4.503	18.003	1.00	13.45	C
ATOM	47	CD1	ILE	A1009	16.175	3.134	18.434	1.00	15.16	C
ATOM	48	C	ILE	A1009	16.318	6.799	16.257	1.00	14.09	C
ATOM	49	O	ILE	A1009	16.033	7.589	17.165	1.00	12.83	O
ATOM	50	N	ASP	A1010	15.491	6.537	15.232	1.00	14.68	N
ATOM	51	CA	ASP	A1010	14.161	7.167	15.101	1.00	16.24	C
ATOM	52	CB	ASP	A1010	14.287	8.580	14.496	1.00	17.11	C
ATOM	53	CG	ASP	A1010	12.944	9.328	14.428	1.00	19.40	C
ATOM	54	OD1	ASP	A1010	12.265	9.295	13.369	1.00	19.82	O
ATOM	55	OD2	ASP	A1010	12.563	9.948	15.446	1.00	19.26	O
ATOM	56	C	ASP	A1010	13.193	6.348	14.230	1.00	16.72	C
ATOM	57	O	ASP	A1010	13.618	5.693	13.276	1.00	16.89	O
ATOM	58	N	ILE	A1011	11.900	6.387	14.570	1.00	17.01	N
ATOM	59	CA	ILE	A1011	10.850	5.706	13.796	1.00	17.33	C
ATOM	60	CB	ILE	A1011	10.410	4.353	14.447	1.00	18.10	C
ATOM	61	CG2	ILE	A1011	9.963	4.570	15.898	1.00	17.28	C
ATOM	62	CG1	ILE	A1011	9.297	3.717	13.601	1.00	18.21	C
ATOM	63	CD1	ILE	A1011	8.852	2.338	14.083	1.00	20.73	C
ATOM	64	C	ILE	A1011	9.648	6.664	13.679	1.00	18.00	C
ATOM	65	O	ILE	A1011	9.262	7.298	14.663	1.00	16.80	O
ATOM	66	N	GLU	A1012	9.060	6.760	12.481	1.00	18.22	N
ATOM	67	CA	GLU	A1012	7.951	7.690	12.220	1.00	19.38	C
ATOM	68	CB	GLU	A1012	8.537	8.972	11.609	1.00	20.91	C
ATOM	69	CG	GLU	A1012	7.537	10.036	11.186	1.00	23.69	C
ATOM	70	CD	GLU	A1012	7.065	10.909	12.336	1.00	24.81	C
ATOM	71	OE1	GLU	A1012	7.432	10.632	13.499	1.00	24.64	O
ATOM	72	OE2	GLU	A1012	6.318	11.878	12.070	1.00	27.04	O
ATOM	73	C	GLU	A1012	6.845	7.146	11.293	1.00	19.45	C
ATOM	74	O	GLU	A1012	7.119	6.397	10.358	1.00	17.84	O
ATOM	75	N	GLU	A1013	5.599	7.538	11.557	1.00	20.13	N
ATOM	76	CA	GLU	A1013	4.456	7.119	10.735	1.00	21.62	C
ATOM	77	CB	GLU	A1013	3.178	7.146	11.584	1.00	24.29	C

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ATOM	78	CG	GLU	A1013	1.916	6.753	10.845	1.00	28.34	C
ATOM	79	CD	GLU	A1013	0.710	6.656	11.766	1.00	30.69	C
ATOM	80	OE1	GLU	A1013	-0.400	6.361	11.267	1.00	33.13	O
ATOM	81	OE2	GLU	A1013	0.871	6.872	12.990	1.00	33.49	O
ATOM	82	C	GLU	A1013	4.302	8.061	9.521	1.00	21.59	C
ATOM	83	O	GLU	A1013	4.247	9.280	9.682	1.00	20.05	O
ATOM	84	N	LEU	A1014	4.223	7.493	8.316	1.00	21.61	N
ATOM	85	CA	LEU	A1014	4.104	8.288	7.087	1.00	22.02	C
ATOM	86	CB	LEU	A1014	4.191	7.365	5.857	1.00	23.16	C
ATOM	87	CG	LEU	A1014	5.502	6.571	5.745	1.00	24.38	C
ATOM	88	CD1	LEU	A1014	5.454	5.622	4.551	1.00	25.08	C
ATOM	89	CD2	LEU	A1014	6.667	7.538	5.604	1.00	25.38	C
ATOM	90	C	LEU	A1014	2.841	9.158	7.006	1.00	22.02	C
ATOM	91	O	LEU	A1014	2.867	10.240	6.419	1.00	21.55	O
ATOM	92	N	ALA	A1015	1.742	8.691	7.593	1.00	22.06	N
ATOM	93	CA	ALA	A1015	0.488	9.452	7.595	1.00	22.62	C
ATOM	94	CB	ALA	A1015	-0.605	8.656	8.299	1.00	22.21	C
ATOM	95	C	ALA	A1015	0.644	10.817	8.274	1.00	22.87	C
ATOM	96	O	ALA	A1015	0.005	11.796	7.875	1.00	23.00	O
ATOM	97	N	SER	A1016	1.482	10.876	9.307	1.00	23.27	N
ATOM	98	CA	SER	A1016	1.716	12.123	10.034	1.00	23.77	C
ATOM	99	CB	SER	A1016	2.535	11.860	11.305	1.00	24.30	C
ATOM	100	OG	SER	A1016	1.890	10.919	12.145	1.00	26.09	O
ATOM	101	C	SER	A1016	2.443	13.146	9.162	1.00	23.41	C
ATOM	102	O	SER	A1016	2.173	14.348	9.249	1.00	23.19	O
ATOM	103	N	ILE	A1017	3.378	12.673	8.340	1.00	23.05	N
ATOM	104	CA	ILE	A1017	4.118	13.566	7.450	1.00	22.92	C
ATOM	105	CB	ILE	A1017	5.355	12.860	6.838	1.00	23.00	C
ATOM	106	CG2	ILE	A1017	6.107	13.823	5.918	1.00	23.26	C
ATOM	107	CG1	ILE	A1017	6.289	12.365	7.951	1.00	23.63	C
ATOM	108	CD1	ILE	A1017	6.896	13.467	8.810	1.00	22.84	C
ATOM	109	C	ILE	A1017	3.204	14.053	6.308	1.00	23.44	C
ATOM	110	O	ILE	A1017	3.276	15.218	5.896	1.00	23.11	O
ATOM	111	N	GLU	A1018	2.341	13.170	5.805	1.00	22.98	N
ATOM	112	CA	GLU	A1018	1.443	13.549	4.714	1.00	24.09	C
ATOM	113	CB	GLU	A1018	0.729	12.306	4.147	1.00	25.23	C
ATOM	114	CG	GLU	A1018	-0.252	12.592	2.997	1.00	27.75	C
ATOM	115	CD	GLU	A1018	-0.632	11.345	2.190	1.00	29.64	C
ATOM	116	OE1	GLU	A1018	-0.807	10.255	2.783	1.00	30.50	O
ATOM	117	OE2	GLU	A1018	-0.771	11.459	0.952	1.00	30.61	O
ATOM	118	C	GLU	A1018	0.427	14.612	5.150	1.00	24.15	C
ATOM	119	O	GLU	A1018	0.142	15.550	4.395	1.00	23.68	O
ATOM	120	N	SER	A1019	-0.103	14.481	6.367	1.00	23.86	N
ATOM	121	CA	SER	A1019	-1.078	15.445	6.879	1.00	24.87	C
ATOM	122	CB	SER	A1019	-1.641	14.993	8.234	1.00	24.60	C
ATOM	123	OG	SER	A1019	-2.387	13.794	8.120	1.00	26.37	O
ATOM	124	C	SER	A1019	-0.450	16.824	7.045	1.00	25.06	C
ATOM	125	O	SER	A1019	-1.077	17.836	6.741	1.00	25.39	O
ATOM	126	N	ALA	A1020	0.790	16.856	7.525	1.00	25.98	N
ATOM	127	CA	ALA	A1020	1.508	18.112	7.748	1.00	26.26	C
ATOM	128	CB	ALA	A1020	2.869	17.829	8.399	1.00	26.48	C
ATOM	129	C	ALA	A1020	1.695	18.909	6.460	1.00	26.83	C
ATOM	130	O	ALA	A1020	1.589	20.138	6.463	1.00	26.25	O
ATOM	131	N	VAL	A1021	1.974	18.210	5.364	1.00	27.31	N
ATOM	132	CA	VAL	A1021	2.166	18.855	4.064	1.00	28.77	C
ATOM	133	CB	VAL	A1021	2.767	17.868	3.029	1.00	28.35	C
ATOM	134	CG1	VAL	A1021	2.801	18.510	1.639	1.00	28.63	C

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ATOM	135	CG2	VAL	A1021	4.176	17.461	3.457	1.00	28.09	C
ATOM	136	C	VAL	A1021	0.845	19.396	3.512	1.00	30.16	C
ATOM	137	O	VAL	A1021	0.775	20.541	3.054	1.00	29.31	O
ATOM	138	N	THR	A1022	-0.195	18.565	3.557	1.00	31.76	N
ATOM	139	CA	THR	A1022	-1.515	18.951	3.057	1.00	33.81	C
ATOM	140	CB	THR	A1022	-2.541	17.798	3.230	1.00	33.53	C
ATOM	141	OG1	THR	A1022	-2.119	16.663	2.466	1.00	33.79	O
ATOM	142	CG2	THR	A1022	-3.926	18.224	2.749	1.00	33.72	C
ATOM	143	C	THR	A1022	-2.032	20.183	3.790	1.00	34.97	C
ATOM	144	O	THR	A1022	-2.802	20.968	3.237	1.00	36.01	O
ATOM	145	N	ARG	A1023	-1.585	20.346	5.029	1.00	36.61	N
ATOM	146	CA	ARG	A1023	-1.988	21.462	5.876	1.00	38.01	C
ATOM	147	CB	ARG	A1023	-1.371	21.297	7.267	1.00	38.96	C
ATOM	148	CG	ARG	A1023	-2.284	21.702	8.409	1.00	40.44	C
ATOM	149	CD	ARG	A1023	-2.443	20.556	9.393	1.00	41.63	C
ATOM	150	NE	ARG	A1023	-1.184	20.219	10.053	1.00	42.83	N
ATOM	151	CZ	ARG	A1023	-1.000	19.134	10.800	1.00	43.45	C
ATOM	152	NH1	ARG	A1023	-1.997	18.277	10.981	1.00	43.85	N
ATOM	153	NH2	ARG	A1023	0.178	18.906	11.367	1.00	43.30	N
ATOM	154	C	ARG	A1023	-1.603	22.825	5.302	1.00	38.55	C
ATOM	155	O	ARG	A1023	-2.143	23.850	5.722	1.00	38.81	O
ATOM	156	N	HIS	A1024	-0.663	22.842	4.359	1.00	38.91	N
ATOM	157	CA	HIS	A1024	-0.244	24.096	3.733	1.00	38.99	C
ATOM	158	CB	HIS	A1024	-1.432	24.654	2.935	1.00	40.09	C
ATOM	159	CG	HIS	A1024	-1.184	25.993	2.315	1.00	41.43	C
ATOM	160	CD2	HIS	A1024	-1.936	27.119	2.304	1.00	41.88	C
ATOM	161	ND1	HIS	A1024	-0.058	26.276	1.573	1.00	41.78	N
ATOM	162	CE1	HIS	A1024	-0.126	27.519	1.131	1.00	42.17	C
ATOM	163	NE2	HIS	A1024	-1.257	28.053	1.560	1.00	42.70	N
ATOM	164	C	HIS	A1024	0.245	25.107	4.782	1.00	38.60	C
ATOM	165	O	HIS	A1024	-0.251	26.236	4.857	1.00	38.61	O
ATOM	166	N	GLU	A1025	1.234	24.696	5.575	1.00	37.69	N
ATOM	167	CA	GLU	A1025	1.784	25.533	6.643	1.00	36.89	C
ATOM	168	CB	GLU	A1025	1.545	24.854	7.995	1.00	37.94	C
ATOM	169	CG	GLU	A1025	2.255	23.508	8.126	1.00	39.13	C
ATOM	170	CD	GLU	A1025	2.003	22.828	9.459	1.00	40.28	C
ATOM	171	OE1	GLU	A1025	0.853	22.405	9.709	1.00	41.24	O
ATOM	172	OE2	GLU	A1025	2.959	22.716	10.258	1.00	40.84	O
ATOM	173	C	GLU	A1025	3.280	25.856	6.518	1.00	35.45	C
ATOM	174	O	GLU	A1025	3.857	26.466	7.424	1.00	35.71	O
ATOM	175	N	GLY	A1026	3.906	25.441	5.420	1.00	33.22	N
ATOM	176	CA	GLY	A1026	5.324	25.708	5.220	1.00	30.99	C
ATOM	177	C	GLY	A1026	6.265	24.668	5.819	1.00	29.44	C
ATOM	178	O	GLY	A1026	7.448	24.943	6.040	1.00	28.80	O
ATOM	179	N	PHE	A1027	5.743	23.470	6.073	1.00	27.49	N
ATOM	180	CA	PHE	A1027	6.524	22.378	6.657	1.00	26.42	C
ATOM	181	CB	PHE	A1027	5.618	21.149	6.830	1.00	26.50	C
ATOM	182	CG	PHE	A1027	6.272	19.995	7.541	1.00	26.07	C
ATOM	183	CD1	PHE	A1027	6.650	20.103	8.876	1.00	25.99	C
ATOM	184	CD2	PHE	A1027	6.499	18.790	6.873	1.00	26.17	C
ATOM	185	CE1	PHE	A1027	7.243	19.028	9.541	1.00	26.70	C
ATOM	186	CE2	PHE	A1027	7.091	17.711	7.527	1.00	26.08	C
ATOM	187	CZ	PHE	A1027	7.465	17.828	8.863	1.00	26.23	C
ATOM	188	C	PHE	A1027	7.776	21.998	5.852	1.00	25.70	C
ATOM	189	O	PHE	A1027	8.892	22.017	6.377	1.00	25.54	O
ATOM	190	N	ALA	A1028	7.598	21.656	4.579	1.00	24.86	N
ATOM	191	CA	ALA	A1028	8.726	21.260	3.737	1.00	24.85	C

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ATOM	192	CB	ALA	A1028	8.232	20.919	2.333	1.00	24.87	C
ATOM	193	C	ALA	A1028	9.824	22.325	3.661	1.00	25.07	C
ATOM	194	O	ALA	A1028	11.018	22.009	3.685	1.00	24.02	O
ATOM	195	N	LYS	A1029	9.417	23.587	3.571	1.00	25.80	N
ATOM	196	CA	LYS	A1029	10.364	24.695	3.488	1.00	26.80	C
ATOM	197	CB	LYS	A1029	9.598	26.000	3.222	1.00	28.18	C
ATOM	198	CG	LYS	A1029	10.449	27.200	2.800	1.00	30.30	C
ATOM	199	CD	LYS	A1029	11.251	27.769	3.958	1.00	32.28	C
ATOM	200	CE	LYS	A1029	11.799	29.151	3.636	1.00	33.23	C
ATOM	201	NZ	LYS	A1029	10.702	30.153	3.506	1.00	34.55	N
ATOM	202	C	LYS	A1029	11.197	24.806	4.771	1.00	26.54	C
ATOM	203	O	LYS	A1029	12.344	25.244	4.738	1.00	26.39	O
ATOM	204	N	ARG	A1030	10.624	24.394	5.897	1.00	26.43	N
ATOM	205	CA	ARG	A1030	11.327	24.464	7.178	1.00	26.50	C
ATOM	206	CB	ARG	A1030	10.312	24.485	8.334	1.00	27.57	C
ATOM	207	CG	ARG	A1030	10.945	24.487	9.727	1.00	30.51	C
ATOM	208	CD	ARG	A1030	9.933	24.858	10.820	1.00	31.96	C
ATOM	209	NE	ARG	A1030	8.887	23.851	11.008	1.00	32.84	N
ATOM	210	CZ	ARG	A1030	9.033	22.740	11.723	1.00	33.04	C
ATOM	211	NH1	ARG	A1030	10.184	22.482	12.327	1.00	33.30	N
ATOM	212	NH2	ARG	A1030	8.028	21.884	11.836	1.00	33.60	N
ATOM	213	C	ARG	A1030	12.325	23.327	7.407	1.00	25.55	C
ATOM	214	O	ARG	A1030	13.402	23.539	7.976	1.00	25.72	O
ATOM	215	N	VAL	A1031	11.967	22.130	6.952	1.00	24.16	N
ATOM	216	CA	VAL	A1031	12.795	20.934	7.134	1.00	23.09	C
ATOM	217	CB	VAL	A1031	11.903	19.655	7.150	1.00	23.53	C
ATOM	218	CG1	VAL	A1031	12.765	18.398	7.339	1.00	23.93	C
ATOM	219	CG2	VAL	A1031	10.874	19.754	8.258	1.00	22.96	C
ATOM	220	C	VAL	A1031	13.932	20.684	6.134	1.00	22.57	C
ATOM	221	O	VAL	A1031	14.952	20.094	6.504	1.00	22.31	O
ATOM	222	N	LEU	A1032	13.765	21.127	4.887	1.00	21.47	N
ATOM	223	CA	LEU	A1032	14.764	20.888	3.830	1.00	21.78	C
ATOM	224	CB	LEU	A1032	14.062	20.277	2.607	1.00	21.38	C
ATOM	225	CG	LEU	A1032	13.126	19.073	2.773	1.00	20.75	C
ATOM	226	CD1	LEU	A1032	12.446	18.779	1.428	1.00	21.22	C
ATOM	227	CD2	LEU	A1032	13.912	17.851	3.249	1.00	20.06	C
ATOM	228	C	LEU	A1032	15.565	22.107	3.355	1.00	22.39	C
ATOM	229	O	LEU	A1032	15.061	23.233	3.375	1.00	22.40	O
ATOM	230	N	THR	A1033	16.806	21.875	2.917	1.00	23.26	N
ATOM	231	CA	THR	A1033	17.661	22.951	2.394	1.00	24.31	C
ATOM	232	CB	THR	A1033	19.171	22.577	2.366	1.00	24.32	C
ATOM	233	OG1	THR	A1033	19.380	21.472	1.473	1.00	24.43	O
ATOM	234	CG2	THR	A1033	19.671	22.217	3.756	1.00	23.93	C
ATOM	235	C	THR	A1033	17.255	23.215	0.945	1.00	25.20	C
ATOM	236	O	THR	A1033	16.343	22.570	0.426	1.00	24.87	O
ATOM	237	N	ALA	A1034	17.937	24.158	0.297	1.00	25.70	N
ATOM	238	CA	ALA	A1034	17.650	24.476	-1.100	1.00	26.57	C
ATOM	239	CB	ALA	A1034	18.485	25.676	-1.548	1.00	27.15	C
ATOM	240	C	ALA	A1034	17.943	23.270	-1.997	1.00	26.78	C
ATOM	241	O	ALA	A1034	17.115	22.896	-2.829	1.00	27.20	O
ATOM	242	N	LEU	A1035	19.122	22.672	-1.831	1.00	26.52	N
ATOM	243	CA	LEU	A1035	19.513	21.503	-2.623	1.00	27.27	C
ATOM	244	CB	LEU	A1035	20.943	21.063	-2.276	1.00	27.34	C
ATOM	245	CG	LEU	A1035	22.137	21.950	-2.658	1.00	28.71	C
ATOM	246	CD1	LEU	A1035	23.388	21.443	-1.953	1.00	28.34	C
ATOM	247	CD2	LEU	A1035	22.348	21.949	-4.171	1.00	29.34	C
ATOM	248	C	LEU	A1035	18.549	20.327	-2.408	1.00	26.73	C

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ATOM	249	O	LEU A1035	18.124	19.679	-3.369	1.00	26.11	O
ATOM	250	N	GLU A1036	18.209	20.048	-1.151	1.00	26.36	N
ATOM	251	CA	GLU A1036	17.285	18.958	-0.852	1.00	26.00	C
ATOM	252	CB	GLU A1036	17.119	18.801	0.675	1.00	24.96	C
ATOM	253	CG	GLU A1036	18.307	18.111	1.367	1.00	22.07	C
ATOM	254	CD	GLU A1036	18.254	18.150	2.900	1.00	22.03	C
ATOM	255	OE1	GLU A1036	18.819	17.229	3.540	1.00	20.25	O
ATOM	256	OE2	GLU A1036	17.671	19.102	3.472	1.00	19.80	O
ATOM	257	C	GLU A1036	15.934	19.228	-1.526	1.00	27.44	C
ATOM	258	O	GLU A1036	15.296	18.314	-2.060	1.00	26.45	O
ATOM	259	N	MET A1037	15.514	20.493	-1.525	1.00	28.51	N
ATOM	260	CA	MET A1037	14.242	20.888	-2.132	1.00	30.20	C
ATOM	261	CB	MET A1037	13.979	22.377	-1.877	1.00	31.18	C
ATOM	262	CG	MET A1037	12.608	22.872	-2.324	1.00	32.64	C
ATOM	263	SD	MET A1037	11.236	22.231	-1.342	1.00	35.22	S
ATOM	264	CE	MET A1037	9.873	22.344	-2.511	1.00	34.31	C
ATOM	265	C	MET A1037	14.192	20.608	-3.637	1.00	30.82	C
ATOM	266	O	MET A1037	13.141	20.248	-4.176	1.00	31.12	O
ATOM	267	N	GLU A1038	15.320	20.780	-4.317	1.00	31.36	N
ATOM	268	CA	GLU A1038	15.371	20.526	-5.756	1.00	31.95	C
ATOM	269	CB	GLU A1038	16.773	20.820	-6.296	1.00	33.04	C
ATOM	270	CG	GLU A1038	17.111	22.300	-6.367	1.00	35.12	C
ATOM	271	CD	GLU A1038	18.578	22.550	-6.673	1.00	36.56	C
ATOM	272	OE1	GLU A1038	18.943	23.713	-6.941	1.00	37.89	O
ATOM	273	OE2	GLU A1038	19.371	21.585	-6.639	1.00	37.49	O
ATOM	274	C	GLU A1038	14.988	19.080	-6.072	1.00	31.21	C
ATOM	275	O	GLU A1038	14.268	18.816	-7.036	1.00	30.88	O
ATOM	276	N	ARG A1039	15.474	18.151	-5.253	1.00	29.97	N
ATOM	277	CA	ARG A1039	15.188	16.730	-5.427	1.00	28.84	C
ATOM	278	CB	ARG A1039	16.086	15.913	-4.483	1.00	29.69	C
ATOM	279	CG	ARG A1039	15.853	14.402	-4.480	1.00	31.09	C
ATOM	280	CD	ARG A1039	16.329	13.727	-5.758	1.00	32.23	C
ATOM	281	NE	ARG A1039	16.125	12.280	-5.708	1.00	33.37	N
ATOM	282	CZ	ARG A1039	16.076	11.492	-6.780	1.00	33.30	C
ATOM	283	NH1	ARG A1039	16.222	12.007	-7.992	1.00	33.19	N
ATOM	284	NH2	ARG A1039	15.852	10.191	-6.641	1.00	32.92	N
ATOM	285	C	ARG A1039	13.709	16.442	-5.145	1.00	27.71	C
ATOM	286	O	ARG A1039	13.059	15.705	-5.887	1.00	26.61	O
ATOM	287	N	PHE A1040	13.189	17.041	-4.076	1.00	26.75	N
ATOM	288	CA	PHE A1040	11.795	16.867	-3.659	1.00	26.16	C
ATOM	289	CB	PHE A1040	11.532	17.729	-2.405	1.00	25.81	C
ATOM	290	CG	PHE A1040	10.111	17.665	-1.886	1.00	25.91	C
ATOM	291	CD1	PHE A1040	9.615	16.508	-1.292	1.00	25.16	C
ATOM	292	CD2	PHE A1040	9.275	18.778	-1.979	1.00	25.61	C
ATOM	293	CE1	PHE A1040	8.309	16.457	-0.798	1.00	25.37	C
ATOM	294	CE2	PHE A1040	7.966	18.740	-1.490	1.00	25.17	C
ATOM	295	CZ	PHE A1040	7.481	17.579	-0.897	1.00	25.69	C
ATOM	296	C	PHE A1040	10.782	17.210	-4.760	1.00	25.80	C
ATOM	297	O	PHE A1040	9.835	16.460	-4.990	1.00	25.42	O
ATOM	298	N	THR A1041	10.984	18.332	-5.443	1.00	25.73	N
ATOM	299	CA	THR A1041	10.053	18.759	-6.493	1.00	26.24	C
ATOM	300	CB	THR A1041	10.257	20.259	-6.836	1.00	26.86	C
ATOM	301	OG1	THR A1041	11.634	20.507	-7.154	1.00	26.58	O
ATOM	302	CG2	THR A1041	9.849	21.130	-5.656	1.00	26.06	C
ATOM	303	C	THR A1041	10.066	17.948	-7.800	1.00	26.59	C
ATOM	304	O	THR A1041	9.149	18.071	-8.620	1.00	27.01	O
ATOM	305	N	SER A1042	11.080	17.111	-7.996	1.00	26.31	N

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ATOM	306	CA	SER	A1042	11.158	16.305	-9.222	1.00	26.03	C
ATOM	307	CB	SER	A1042	12.618	16.106	-9.631	1.00	26.30	C
ATOM	308	OG	SER	A1042	13.287	15.231	-8.737	1.00	27.19	O
ATOM	309	C	SER	A1042	10.488	14.935	-9.082	1.00	25.97	C
ATOM	310	O	SER	A1042	10.354	14.198	-10.063	1.00	25.27	O
ATOM	311	N	LEU	A1043	10.064	14.599	-7.865	1.00	25.25	N
ATOM	312	CA	LEU	A1043	9.431	13.310	-7.601	1.00	25.51	C
ATOM	313	CB	LEU	A1043	9.906	12.765	-6.245	1.00	24.11	C
ATOM	314	CG	LEU	A1043	11.425	12.571	-6.118	1.00	24.06	C
ATOM	315	CD1	LEU	A1043	11.768	12.080	-4.715	1.00	22.60	C
ATOM	316	CD2	LEU	A1043	11.914	11.571	-7.164	1.00	23.86	C
ATOM	317	C	LEU	A1043	7.907	13.389	-7.634	1.00	25.82	C
ATOM	318	O	LEU	A1043	7.333	14.475	-7.575	1.00	26.42	O
ATOM	319	N	LYS	A1044	7.256	12.233	-7.723	1.00	26.67	N
ATOM	320	CA	LYS	A1044	5.802	12.184	-7.785	1.00	27.60	C
ATOM	321	CB	LYS	A1044	5.361	11.803	-9.200	1.00	29.18	C
ATOM	322	CG	LYS	A1044	5.705	10.369	-9.562	1.00	31.06	C
ATOM	323	CD	LYS	A1044	5.359	10.045	-10.999	1.00	32.81	C
ATOM	324	CE	LYS	A1044	5.572	8.567	-11.282	1.00	33.54	C
ATOM	325	NZ	LYS	A1044	4.702	7.716	-10.419	1.00	34.84	N
ATOM	326	C	LYS	A1044	5.159	11.211	-6.795	1.00	27.94	C
ATOM	327	O	LYS	A1044	5.774	10.227	-6.367	1.00	27.61	O
ATOM	328	N	GLY	A1045	3.904	11.500	-6.464	1.00	27.68	N
ATOM	329	CA	GLY	A1045	3.124	10.671	-5.562	1.00	28.74	C
ATOM	330	C	GLY	A1045	3.741	10.224	-4.252	1.00	28.99	C
ATOM	331	O	GLY	A1045	4.282	11.024	-3.487	1.00	29.00	O
ATOM	332	N	ARG	A1046	3.643	8.925	-3.998	1.00	29.30	N
ATOM	333	CA	ARG	A1046	4.155	8.320	-2.776	1.00	30.48	C
ATOM	334	CB	ARG	A1046	3.790	6.833	-2.754	1.00	32.57	C
ATOM	335	CG	ARG	A1046	3.044	6.390	-1.513	1.00	35.84	C
ATOM	336	CD	ARG	A1046	2.680	4.922	-1.598	1.00	38.51	C
ATOM	337	NE	ARG	A1046	2.023	4.445	-0.384	1.00	41.12	N
ATOM	338	CZ	ARG	A1046	1.613	3.194	-0.204	1.00	42.33	C
ATOM	339	NH1	ARG	A1046	1.024	2.842	0.931	1.00	42.60	N
ATOM	340	NH2	ARG	A1046	1.793	2.292	-1.164	1.00	43.25	N
ATOM	341	C	ARG	A1046	5.663	8.479	-2.582	1.00	29.60	C
ATOM	342	O	ARG	A1046	6.128	8.686	-1.460	1.00	28.95	O
ATOM	343	N	ARG	A1047	6.423	8.375	-3.668	1.00	28.70	N
ATOM	344	CA	ARG	A1047	7.875	8.495	-3.585	1.00	28.01	C
ATOM	345	CB	ARG	A1047	8.512	8.167	-4.943	1.00	29.65	C
ATOM	346	CG	ARG	A1047	9.566	7.069	-4.869	1.00	32.09	C
ATOM	347	CD	ARG	A1047	9.831	6.426	-6.228	1.00	34.53	C
ATOM	348	NE	ARG	A1047	8.601	5.910	-6.825	1.00	36.57	N
ATOM	349	CZ	ARG	A1047	8.548	5.138	-7.906	1.00	37.35	C
ATOM	350	NH1	ARG	A1047	7.373	4.727	-8.368	1.00	38.05	N
ATOM	351	NH2	ARG	A1047	9.663	4.767	-8.523	1.00	38.02	N
ATOM	352	C	ARG	A1047	8.288	9.890	-3.117	1.00	26.86	C
ATOM	353	O	ARG	A1047	9.309	10.048	-2.444	1.00	25.61	O
ATOM	354	N	GLN	A1048	7.481	10.891	-3.464	1.00	25.04	N
ATOM	355	CA	GLN	A1048	7.739	12.277	-3.079	1.00	24.33	C
ATOM	356	CB	GLN	A1048	6.733	13.217	-3.779	1.00	25.19	C
ATOM	357	CG	GLN	A1048	7.138	14.694	-3.774	1.00	26.24	C
ATOM	358	CD	GLN	A1048	6.221	15.581	-4.620	1.00	26.41	C
ATOM	359	OE1	GLN	A1048	6.617	16.664	-5.047	1.00	26.86	O
ATOM	360	NE2	GLN	A1048	4.994	15.127	-4.853	1.00	27.01	N
ATOM	361	C	GLN	A1048	7.632	12.442	-1.553	1.00	23.25	C
ATOM	362	O	GLN	A1048	8.463	13.110	-0.935	1.00	23.01	O

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ATOM	363	N	ILE	A1049	6.615	11.830	-0.949	1.00	22.49	N
ATOM	364	CA	ILE	A1049	6.423	11.919	0.504	1.00	22.00	C
ATOM	365	CB	ILE	A1049	5.011	11.414	0.916	1.00	23.38	C
ATOM	366	CG2	ILE	A1049	4.810	11.564	2.421	1.00	23.48	C
ATOM	367	CG1	ILE	A1049	3.928	12.197	0.161	1.00	24.39	C
ATOM	368	CD1	ILE	A1049	3.923	13.695	0.424	1.00	25.65	C
ATOM	369	C	ILE	A1049	7.496	11.118	1.274	1.00	21.25	C
ATOM	370	O	ILE	A1049	7.940	11.537	2.347	1.00	19.66	O
ATOM	371	N	GLU	A1050	7.913	9.975	0.724	1.00	20.69	N
ATOM	372	CA	GLU	A1050	8.939	9.146	1.372	1.00	20.67	C
ATOM	373	CB	GLU	A1050	9.093	7.794	0.650	1.00	22.03	C
ATOM	374	CG	GLU	A1050	10.362	7.017	1.051	1.00	23.69	C
ATOM	375	CD	GLU	A1050	10.385	6.625	2.520	1.00	24.98	C
ATOM	376	OE1	GLU	A1050	11.498	6.519	3.095	1.00	23.91	O
ATOM	377	OE2	GLU	A1050	9.292	6.409	3.097	1.00	25.89	O
ATOM	378	C	GLU	A1050	10.298	9.851	1.430	1.00	19.72	C
ATOM	379	O	GLU	A1050	11.073	9.634	2.367	1.00	19.12	O
ATOM	380	N	TYR	A1051	10.604	10.680	0.431	1.00	18.43	N
ATOM	381	CA	TYR	A1051	11.878	11.400	0.435	1.00	17.86	C
ATOM	382	CB	TYR	A1051	12.110	12.129	-0.902	1.00	18.12	C
ATOM	383	CG	TYR	A1051	13.379	12.970	-0.932	1.00	17.88	C
ATOM	384	CD1	TYR	A1051	13.372	14.307	-0.518	1.00	17.74	C
ATOM	385	CE1	TYR	A1051	14.547	15.076	-0.516	1.00	17.82	C
ATOM	386	CD2	TYR	A1051	14.592	12.419	-1.345	1.00	17.56	C
ATOM	387	CE2	TYR	A1051	15.770	13.176	-1.344	1.00	18.21	C
ATOM	388	CZ	TYR	A1051	15.740	14.501	-0.929	1.00	18.16	C
ATOM	389	OH	TYR	A1051	16.908	15.237	-0.923	1.00	18.28	O
ATOM	390	C	TYR	A1051	11.915	12.409	1.590	1.00	17.91	C
ATOM	391	O	TYR	A1051	12.927	12.525	2.290	1.00	16.53	O
ATOM	392	N	LEU	A1052	10.810	13.137	1.778	1.00	17.38	N
ATOM	393	CA	LEU	A1052	10.709	14.131	2.851	1.00	17.07	C
ATOM	394	CB	LEU	A1052	9.392	14.917	2.731	1.00	17.53	C
ATOM	395	CG	LEU	A1052	8.985	15.844	3.890	1.00	17.80	C
ATOM	396	CD1	LEU	A1052	10.096	16.844	4.191	1.00	18.32	C
ATOM	397	CD2	LEU	A1052	7.693	16.573	3.524	1.00	17.67	C
ATOM	398	C	LEU	A1052	10.784	13.448	4.219	1.00	16.62	C
ATOM	399	O	LEU	A1052	11.544	13.874	5.093	1.00	16.61	O
ATOM	400	N	ALA	A1053	10.006	12.383	4.394	1.00	15.83	N
ATOM	401	CA	ALA	A1053	9.985	11.645	5.662	1.00	15.97	C
ATOM	402	CB	ALA	A1053	8.974	10.516	5.587	1.00	15.80	C
ATOM	403	C	ALA	A1053	11.362	11.091	6.038	1.00	15.64	C
ATOM	404	O	ALA	A1053	11.750	11.129	7.208	1.00	15.53	O
ATOM	405	N	GLY	A1054	12.094	10.573	5.054	1.00	14.85	N
ATOM	406	CA	GLY	A1054	13.420	10.028	5.327	1.00	14.89	C
ATOM	407	C	GLY	A1054	14.431	11.073	5.789	1.00	14.97	C
ATOM	408	O	GLY	A1054	15.243	10.820	6.689	1.00	14.15	O
ATOM	409	N	ARG	A1055	14.403	12.250	5.169	1.00	14.68	N
ATOM	410	CA	ARG	A1055	15.327	13.313	5.553	1.00	15.29	C
ATOM	411	CB	ARG	A1055	15.257	14.462	4.533	1.00	14.70	C
ATOM	412	CG	ARG	A1055	16.364	14.420	3.438	1.00	16.14	C
ATOM	413	CD	ARG	A1055	16.452	13.082	2.658	1.00	16.61	C
ATOM	414	NE	ARG	A1055	17.610	13.039	1.745	1.00	16.90	N
ATOM	415	CZ	ARG	A1055	17.966	11.976	1.021	1.00	17.56	C
ATOM	416	NH1	ARG	A1055	17.265	10.850	1.093	1.00	16.02	N
ATOM	417	NH2	ARG	A1055	19.028	12.034	0.215	1.00	18.06	N
ATOM	418	C	ARG	A1055	15.010	13.804	6.980	1.00	15.61	C
ATOM	419	O	ARG	A1055	15.909	14.138	7.755	1.00	15.05	O

ATOM	420	N	TRP	A1056	13.731	13.826	7.333	1.00	15.92	N
ATOM	421	CA	TRP	A1056	13.324	14.252	8.676	1.00	17.44	C
ATOM	422	CB	TRP	A1056	11.791	14.409	8.706	1.00	20.42	C
ATOM	423	CG	TRP	A1056	11.151	14.202	10.044	1.00	24.52	C
ATOM	424	CD2	TRP	A1056	10.650	15.212	10.921	1.00	26.47	C
ATOM	425	CE2	TRP	A1056	10.140	14.556	12.065	1.00	27.71	C
ATOM	426	CE3	TRP	A1056	10.581	16.607	10.854	1.00	27.13	C
ATOM	427	CD1	TRP	A1056	10.931	13.005	10.673	1.00	25.93	C
ATOM	428	NE1	TRP	A1056	10.325	13.211	11.885	1.00	27.77	N
ATOM	429	CZ2	TRP	A1056	9.567	15.250	13.133	1.00	28.62	C
ATOM	430	CZ3	TRP	A1056	10.012	17.297	11.915	1.00	28.11	C
ATOM	431	CH2	TRP	A1056	9.512	16.617	13.041	1.00	29.24	C
ATOM	432	C	TRP	A1056	13.807	13.259	9.758	1.00	16.63	C
ATOM	433	O	TRP	A1056	14.339	13.661	10.813	1.00	14.62	O
ATOM	434	N	SER	A1057	13.645	11.965	9.477	1.00	15.34	N
ATOM	435	CA	SER	A1057	14.034	10.892	10.404	1.00	14.89	C
ATOM	436	CB	SER	A1057	13.509	9.549	9.864	1.00	16.31	C
ATOM	437	OG	SER	A1057	13.653	8.482	10.792	1.00	15.29	O
ATOM	438	C	SER	A1057	15.558	10.833	10.624	1.00	14.80	C
ATOM	439	O	SER	A1057	16.033	10.618	11.748	1.00	13.11	O
ATOM	440	N	ALA	A1058	16.326	11.043	9.560	1.00	13.86	N
ATOM	441	CA	ALA	A1058	17.784	11.015	9.670	1.00	14.03	C
ATOM	442	CB	ALA	A1058	18.408	11.077	8.283	1.00	14.39	C
ATOM	443	C	ALA	A1058	18.326	12.162	10.528	1.00	14.15	C
ATOM	444	O	ALA	A1058	19.253	11.972	11.326	1.00	12.67	O
ATOM	445	N	LYS	A1059	17.760	13.356	10.346	1.00	14.25	N
ATOM	446	CA	LYS	A1059	18.198	14.530	11.102	1.00	14.94	C
ATOM	447	CB	LYS	A1059	17.561	15.807	10.511	1.00	14.63	C
ATOM	448	CG	LYS	A1059	18.030	16.077	9.061	1.00	15.21	C
ATOM	449	CD	LYS	A1059	17.605	17.445	8.497	1.00	14.78	C
ATOM	450	CE	LYS	A1059	18.198	17.662	7.096	1.00	15.27	C
ATOM	451	NZ	LYS	A1059	17.780	18.955	6.460	1.00	14.73	N
ATOM	452	C	LYS	A1059	17.902	14.382	12.597	1.00	15.88	C
ATOM	453	O	LYS	A1059	18.726	14.755	13.441	1.00	15.17	O
ATOM	454	N	GLU	A1060	16.743	13.819	12.933	1.00	15.81	N
ATOM	455	CA	GLU	A1060	16.395	13.609	14.337	1.00	16.66	C
ATOM	456	CB	GLU	A1060	14.943	13.142	14.474	1.00	18.92	C
ATOM	457	CG	GLU	A1060	13.922	14.183	14.023	1.00	23.44	C
ATOM	458	CD	GLU	A1060	12.804	14.369	15.031	1.00	26.75	C
ATOM	459	OE1	GLU	A1060	12.175	13.358	15.414	1.00	29.16	O
ATOM	460	OE2	GLU	A1060	12.547	15.522	15.437	1.00	27.98	O
ATOM	461	C	GLU	A1060	17.333	12.578	14.977	1.00	15.69	C
ATOM	462	O	GLU	A1060	17.740	12.730	16.138	1.00	14.40	O
ATOM	463	N	ALA	A1061	17.689	11.541	14.219	1.00	14.51	N
ATOM	464	CA	ALA	A1061	18.586	10.500	14.727	1.00	14.88	C
ATOM	465	CB	ALA	A1061	18.658	9.312	13.730	1.00	14.28	C
ATOM	466	C	ALA	A1061	19.998	11.037	15.018	1.00	15.17	C
ATOM	467	O	ALA	A1061	20.635	10.622	16.001	1.00	14.05	O
ATOM	468	N	PHE	A1062	20.488	11.943	14.167	1.00	14.78	N
ATOM	469	CA	PHE	A1062	21.811	12.545	14.365	1.00	16.06	C
ATOM	470	CB	PHE	A1062	22.200	13.433	13.161	1.00	16.25	C
ATOM	471	CG	PHE	A1062	23.514	14.176	13.341	1.00	17.02	C
ATOM	472	CD1	PHE	A1062	23.562	15.384	14.039	1.00	17.84	C
ATOM	473	CD2	PHE	A1062	24.707	13.642	12.847	1.00	16.96	C
ATOM	474	CE1	PHE	A1062	24.783	16.049	14.247	1.00	17.77	C
ATOM	475	CE2	PHE	A1062	25.931	14.297	13.049	1.00	17.84	C
ATOM	476	CZ	PHE	A1062	25.964	15.505	13.754	1.00	18.67	C

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ATOM	477	C	PHE A1062	21.830	13.380	15.651	1.00	16.47	C
ATOM	478	O	PHE A1062	22.792	13.326	16.422	1.00	15.43	O
ATOM	479	N	SER A1063	20.760	14.138	15.895	1.00	17.69	N
ATOM	480	CA	SER A1063	20.695	14.979	17.093	1.00	19.00	C
ATOM	481	CB	SER A1063	19.446	15.881	17.067	1.00	20.22	C
ATOM	482	OG	SER A1063	18.276	15.162	17.434	1.00	23.89	O
ATOM	483	C	SER A1063	20.707	14.148	18.383	1.00	19.17	C
ATOM	484	O	SER A1063	21.229	14.602	19.405	1.00	19.65	O
ATOM	485	N	LYS A1064	20.124	12.949	18.353	1.00	18.93	N
ATOM	486	CA	LYS A1064	20.121	12.093	19.545	1.00	19.27	C
ATOM	487	CB	LYS A1064	19.094	10.961	19.418	1.00	19.83	C
ATOM	488	CG	LYS A1064	17.648	11.413	19.471	1.00	21.72	C
ATOM	489	CD	LYS A1064	16.720	10.201	19.456	1.00	23.02	C
ATOM	490	CE	LYS A1064	15.270	10.614	19.240	1.00	24.30	C
ATOM	491	NZ	LYS A1064	14.379	9.425	19.074	1.00	25.01	N
ATOM	492	C	LYS A1064	21.510	11.497	19.770	1.00	19.33	C
ATOM	493	O	LYS A1064	21.920	11.256	20.922	1.00	18.44	O
ATOM	494	N	ALA A1065	22.230	11.254	18.674	1.00	18.91	N
ATOM	495	CA	ALA A1065	23.588	10.716	18.757	1.00	20.48	C
ATOM	496	CB	ALA A1065	24.110	10.348	17.359	1.00	19.55	C
ATOM	497	C	ALA A1065	24.515	11.745	19.417	1.00	22.05	C
ATOM	498	O	ALA A1065	25.486	11.374	20.086	1.00	22.04	O
ATOM	499	N	MET A1066	24.224	13.032	19.224	1.00	23.48	N
ATOM	500	CA	MET A1066	25.027	14.101	19.836	1.00	26.32	C
ATOM	501	CB	MET A1066	24.893	15.409	19.044	1.00	27.55	C
ATOM	502	CG	MET A1066	25.471	15.377	17.634	1.00	29.85	C
ATOM	503	SD	MET A1066	27.227	15.839	17.541	1.00	34.49	S
ATOM	504	CE	MET A1066	27.100	17.585	17.194	1.00	32.80	C
ATOM	505	C	MET A1066	24.554	14.334	21.277	1.00	27.22	C
ATOM	506	O	MET A1066	25.272	14.916	22.093	1.00	27.02	O
ATOM	507	N	GLY A1067	23.335	13.885	21.572	1.00	28.21	N
ATOM	508	CA	GLY A1067	22.770	14.032	22.905	1.00	29.77	C
ATOM	509	C	GLY A1067	22.161	15.395	23.194	1.00	31.30	C
ATOM	510	O	GLY A1067	21.943	15.746	24.356	1.00	30.88	O
ATOM	511	N	THR A1068	21.857	16.153	22.145	1.00	32.65	N
ATOM	512	CA	THR A1068	21.305	17.495	22.309	1.00	34.08	C
ATOM	513	CB	THR A1068	22.128	18.520	21.510	1.00	34.54	C
ATOM	514	OG1	THR A1068	21.950	18.280	20.109	1.00	34.50	O
ATOM	515	CG2	THR A1068	23.613	18.400	21.849	1.00	34.68	C
ATOM	516	C	THR A1068	19.843	17.694	21.911	1.00	35.08	C
ATOM	517	O	THR A1068	19.199	18.637	22.380	1.00	35.34	O
ATOM	518	N	GLY A1069	19.320	16.834	21.046	1.00	35.84	N
ATOM	519	CA	GLY A1069	17.942	16.995	20.611	1.00	37.37	C
ATOM	520	C	GLY A1069	17.855	18.092	19.561	1.00	38.51	C
ATOM	521	O	GLY A1069	18.739	18.946	19.478	1.00	38.69	O
ATOM	522	N	ILE A1070	16.801	18.088	18.752	1.00	39.34	N
ATOM	523	CA	ILE A1070	16.688	19.108	17.722	1.00	40.39	C
ATOM	524	CB	ILE A1070	16.453	18.482	16.329	1.00	40.56	C
ATOM	525	CG2	ILE A1070	15.019	17.992	16.207	1.00	40.43	C
ATOM	526	CG1	ILE A1070	16.784	19.515	15.245	1.00	40.90	C
ATOM	527	CD1	ILE A1070	16.900	18.947	13.841	1.00	40.92	C
ATOM	528	C	ILE A1070	15.616	20.147	18.019	1.00	41.07	C
ATOM	529	O	ILE A1070	14.461	19.826	18.305	1.00	41.30	O
ATOM	530	N	SER A1071	16.046	21.398	17.936	1.00	41.96	N
ATOM	531	CA	SER A1071	15.247	22.588	18.201	1.00	42.87	C
ATOM	532	CB	SER A1071	14.184	22.325	19.271	1.00	43.28	C
ATOM	533	OG	SER A1071	14.779	21.937	20.496	1.00	44.51	O

ATOM	534	C	SER A1071	16.314	23.521	18.753	1.00	43.09	C
ATOM	535	O	SER A1071	16.254	24.741	18.585	1.00	43.47	O
ATOM	536	N	LYS A1072	17.295	22.914	19.419	1.00	42.86	N
ATOM	537	CA	LYS A1072	18.427	23.637	19.982	1.00	42.57	C
ATOM	538	CB	LYS A1072	19.143	22.768	21.022	1.00	42.32	C
ATOM	539	CG	LYS A1072	18.214	22.218	22.093	0.05	42.40	C
ATOM	540	CD	LYS A1072	17.501	23.339	22.829	0.05	42.37	C
ATOM	541	CE	LYS A1072	16.446	22.789	23.773	0.05	42.36	C
ATOM	542	NZ	LYS A1072	15.708	23.878	24.472	0.05	42.34	N
ATOM	543	C	LYS A1072	19.330	23.904	18.783	1.00	42.27	C
ATOM	544	O	LYS A1072	20.222	24.752	18.814	1.00	42.17	O
ATOM	545	N	LEU A1073	19.065	23.149	17.723	1.00	41.69	N
ATOM	546	CA	LEU A1073	19.773	23.255	16.458	1.00	41.03	C
ATOM	547	CB	LEU A1073	20.879	22.197	16.365	1.00	41.27	C
ATOM	548	CG	LEU A1073	21.578	22.058	15.008	1.00	41.68	C
ATOM	549	CD1	LEU A1073	23.024	21.623	15.193	1.00	41.49	C
ATOM	550	CD2	LEU A1073	20.819	21.060	14.156	1.00	41.59	C
ATOM	551	C	LEU A1073	18.696	23.006	15.408	1.00	39.74	C
ATOM	552	O	LEU A1073	17.999	21.994	15.458	1.00	40.51	O
ATOM	553	N	GLY A1074	18.550	23.937	14.473	1.00	37.90	N
ATOM	554	CA	GLY A1074	17.532	23.795	13.452	1.00	34.96	C
ATOM	555	C	GLY A1074	17.853	22.756	12.399	1.00	32.76	C
ATOM	556	O	GLY A1074	18.968	22.237	12.331	1.00	31.86	O
ATOM	557	N	PHE A1075	16.861	22.447	11.575	1.00	30.76	N
ATOM	558	CA	PHE A1075	17.047	21.474	10.510	1.00	29.13	C
ATOM	559	CB	PHE A1075	15.691	21.061	9.913	1.00	28.59	C
ATOM	560	CG	PHE A1075	14.795	20.317	10.871	1.00	28.14	C
ATOM	561	CD1	PHE A1075	14.129	20.990	11.893	1.00	28.80	C
ATOM	562	CD2	PHE A1075	14.617	18.940	10.747	1.00	27.48	C
ATOM	563	CE1	PHE A1075	13.294	20.301	12.780	1.00	28.53	C
ATOM	564	CE2	PHE A1075	13.787	18.239	11.624	1.00	28.38	C
ATOM	565	CZ	PHE A1075	13.123	18.921	12.644	1.00	28.31	C
ATOM	566	C	PHE A1075	17.940	22.039	9.402	1.00	27.80	C
ATOM	567	O	PHE A1075	18.556	21.280	8.655	1.00	27.44	O
ATOM	568	N	GLN A1076	18.022	23.366	9.301	1.00	26.94	N
ATOM	569	CA	GLN A1076	18.828	24.003	8.250	1.00	26.57	C
ATOM	570	CB	GLN A1076	18.468	25.490	8.111	1.00	27.23	C
ATOM	571	CG	GLN A1076	17.037	25.783	7.655	1.00	28.06	C
ATOM	572	CD	GLN A1076	16.725	25.253	6.261	1.00	28.68	C
ATOM	573	OE1	GLN A1076	17.504	25.432	5.321	1.00	28.59	O
ATOM	574	NE2	GLN A1076	15.571	24.616	6.119	1.00	28.78	N
ATOM	575	C	GLN A1076	20.341	23.880	8.435	1.00	26.18	C
ATOM	576	O	GLN A1076	21.110	24.292	7.565	1.00	25.59	O
ATOM	577	N	ASP A1077	20.774	23.318	9.558	1.00	25.77	N
ATOM	578	CA	ASP A1077	22.204	23.158	9.808	1.00	25.68	C
ATOM	579	CB	ASP A1077	22.498	23.399	11.287	1.00	28.73	C
ATOM	580	CG	ASP A1077	23.952	23.697	11.542	1.00	30.84	C
ATOM	581	OD1	ASP A1077	24.457	24.688	10.969	1.00	33.09	O
ATOM	582	OD2	ASP A1077	24.590	22.947	12.309	1.00	32.53	O
ATOM	583	C	ASP A1077	22.729	21.770	9.393	1.00	24.42	C
ATOM	584	O	ASP A1077	23.928	21.487	9.516	1.00	23.80	O
ATOM	585	N	LEU A1078	21.831	20.919	8.899	1.00	22.23	N
ATOM	586	CA	LEU A1078	22.187	19.559	8.463	1.00	20.68	C
ATOM	587	CB	LEU A1078	21.530	18.525	9.398	1.00	19.99	C
ATOM	588	CG	LEU A1078	21.781	18.646	10.911	1.00	19.68	C
ATOM	589	CD1	LEU A1078	20.853	17.703	11.686	1.00	19.87	C
ATOM	590	CD2	LEU A1078	23.241	18.328	11.221	1.00	20.17	C

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ATOM	591	C	LEU A1078	21.706	19.326	7.022	1.00	20.16	C
ATOM	592	O	LEU A1078	20.708	19.915	6.605	1.00	19.88	O
ATOM	593	N	GLU A1079	22.408	18.474	6.265	1.00	19.89	N
ATOM	594	CA	GLU A1079	22.021	18.165	4.875	1.00	18.83	C
ATOM	595	CB	GLU A1079	22.690	19.153	3.905	1.00	19.73	C
ATOM	596	CG	GLU A1079	22.172	19.085	2.459	1.00	21.03	C
ATOM	597	CD	GLU A1079	22.914	20.028	1.510	1.00	22.47	C
ATOM	598	OE1	GLU A1079	24.127	19.815	1.271	1.00	22.27	O
ATOM	599	OE2	GLU A1079	22.279	20.982	1.002	1.00	23.12	O
ATOM	600	C	GLU A1079	22.385	16.716	4.484	1.00	18.06	C
ATOM	601	O	GLU A1079	23.492	16.242	4.778	1.00	17.37	O
ATOM	602	N	VAL A1080	21.451	16.023	3.826	1.00	16.74	N
ATOM	603	CA	VAL A1080	21.644	14.626	3.396	1.00	16.37	C
ATOM	604	CB	VAL A1080	20.633	13.675	4.138	1.00	16.24	C
ATOM	605	CG1	VAL A1080	20.859	12.217	3.738	1.00	16.31	C
ATOM	606	CG2	VAL A1080	20.776	13.832	5.654	1.00	16.73	C
ATOM	607	C	VAL A1080	21.454	14.439	1.868	1.00	16.11	C
ATOM	608	O	VAL A1080	20.356	14.635	1.357	1.00	16.59	O
ATOM	609	N	LEU A1081	22.519	14.060	1.155	1.00	16.23	N
ATOM	610	CA	LEU A1081	22.473	13.830	-0.303	1.00	16.11	C
ATOM	611	CB	LEU A1081	23.488	14.749	-1.017	1.00	16.03	C
ATOM	612	CG	LEU A1081	23.400	16.265	-0.767	1.00	17.13	C
ATOM	613	CD1	LEU A1081	24.565	16.983	-1.464	1.00	16.85	C
ATOM	614	CD2	LEU A1081	22.064	16.798	-1.283	1.00	17.61	C
ATOM	615	C	LEU A1081	22.790	12.350	-0.624	1.00	16.47	C
ATOM	616	O	LEU A1081	22.881	11.530	0.285	1.00	15.85	O
ATOM	617	N	ASN A1082	22.954	12.004	-1.906	1.00	17.23	N
ATOM	618	CA	ASN A1082	23.266	10.615	-2.299	1.00	18.16	C
ATOM	619	CB	ASN A1082	22.169	10.064	-3.227	1.00	19.47	C
ATOM	620	CG	ASN A1082	20.853	9.800	-2.496	1.00	20.37	C
ATOM	621	OD1	ASN A1082	20.701	8.793	-1.806	1.00	23.12	O
ATOM	622	ND2	ASN A1082	19.908	10.709	-2.637	1.00	21.16	N
ATOM	623	C	ASN A1082	24.633	10.540	-3.004	1.00	18.65	C
ATOM	624	O	ASN A1082	24.894	11.311	-3.936	1.00	18.53	O
ATOM	625	N	ASN A1083	25.501	9.621	-2.567	1.00	18.47	N
ATOM	626	CA	ASN A1083	26.840	9.496	-3.160	1.00	19.58	C
ATOM	627	CB	ASN A1083	27.823	8.831	-2.172	1.00	19.14	C
ATOM	628	CG	ASN A1083	27.525	7.354	-1.898	1.00	19.47	C
ATOM	629	OD1	ASN A1083	28.000	6.806	-0.896	1.00	21.52	O
ATOM	630	ND2	ASN A1083	26.774	6.705	-2.778	1.00	18.08	N
ATOM	631	C	ASN A1083	26.879	8.801	-4.522	1.00	21.02	C
ATOM	632	O	ASN A1083	25.835	8.408	-5.053	1.00	20.46	O
ATOM	633	N	GLU A1084	28.073	8.655	-5.095	1.00	22.56	N
ATOM	634	CA	GLU A1084	28.183	8.048	-6.422	1.00	25.48	C
ATOM	635	CB	GLU A1084	29.606	8.243	-6.993	1.00	26.01	C
ATOM	636	CG	GLU A1084	30.704	7.346	-6.452	1.00	27.48	C
ATOM	637	CD	GLU A1084	32.055	7.621	-7.127	1.00	28.81	C
ATOM	638	OE1	GLU A1084	32.087	7.807	-8.365	1.00	28.44	O
ATOM	639	OE2	GLU A1084	33.085	7.644	-6.424	1.00	29.66	O
ATOM	640	C	GLU A1084	27.747	6.583	-6.523	1.00	26.10	C
ATOM	641	O	GLU A1084	27.675	6.030	-7.618	1.00	26.96	O
ATOM	642	N	ARG A1085	27.446	5.958	-5.390	1.00	26.87	N
ATOM	643	CA	ARG A1085	26.976	4.571	-5.381	1.00	27.01	C
ATOM	644	CB	ARG A1085	27.697	3.761	-4.302	1.00	29.89	C
ATOM	645	CG	ARG A1085	29.210	3.670	-4.479	1.00	33.27	C
ATOM	646	CD	ARG A1085	29.603	2.687	-5.570	1.00	35.91	C
ATOM	647	NE	ARG A1085	31.041	2.724	-5.834	1.00	37.82	N

ATOM	648	CZ	ARG	A1085	31.696	1.814	-6.549	1.00	39.02	C
ATOM	649	NH1	ARG	A1085	33.005	1.929	-6.739	1.00	39.21	N
ATOM	650	NH2	ARG	A1085	31.043	0.782	-7.067	1.00	39.98	N
ATOM	651	C	ARG	A1085	25.467	4.573	-5.097	1.00	26.06	C
ATOM	652	O	ARG	A1085	24.830	3.515	-5.033	1.00	26.15	O
ATOM	653	N	GLY	A1086	24.911	5.768	-4.907	1.00	24.38	N
ATOM	654	CA	GLY	A1086	23.485	5.910	-4.649	1.00	22.84	C
ATOM	655	C	GLY	A1086	22.989	5.874	-3.207	1.00	21.70	C
ATOM	656	O	GLY	A1086	21.780	5.910	-2.980	1.00	21.52	O
ATOM	657	N	ALA	A1087	23.896	5.813	-2.234	1.00	20.27	N
ATOM	658	CA	ALA	A1087	23.506	5.757	-0.819	1.00	19.12	C
ATOM	659	CB	ALA	A1087	24.452	4.825	-0.065	1.00	19.31	C
ATOM	660	C	ALA	A1087	23.468	7.126	-0.123	1.00	18.28	C
ATOM	661	O	ALA	A1087	24.293	8.001	-0.400	1.00	17.46	O
ATOM	662	N	PRO	A1088	22.511	7.322	0.807	1.00	17.16	N
ATOM	663	CD	PRO	A1088	21.424	6.400	1.186	1.00	17.79	C
ATOM	664	CA	PRO	A1088	22.398	8.598	1.529	1.00	16.21	C
ATOM	665	CB	PRO	A1088	21.053	8.469	2.263	1.00	16.47	C
ATOM	666	CG	PRO	A1088	20.938	6.995	2.507	1.00	17.39	C
ATOM	667	C	PRO	A1088	23.579	8.828	2.481	1.00	15.55	C
ATOM	668	O	PRO	A1088	24.084	7.876	3.082	1.00	14.47	O
ATOM	669	N	TYR	A1089	24.018	10.085	2.597	1.00	14.68	N
ATOM	670	CA	TYR	A1089	25.148	10.453	3.466	1.00	15.17	C
ATOM	671	CB	TYR	A1089	26.478	10.205	2.728	1.00	15.96	C
ATOM	672	CG	TYR	A1089	26.834	11.280	1.707	1.00	17.14	C
ATOM	673	CD1	TYR	A1089	27.815	12.240	1.980	1.00	17.14	C
ATOM	674	CE1	TYR	A1089	28.136	13.243	1.042	1.00	17.71	C
ATOM	675	CD2	TYR	A1089	26.180	11.345	0.476	1.00	17.70	C
ATOM	676	CE2	TYR	A1089	26.490	12.342	-0.470	1.00	18.23	C
ATOM	677	CZ	TYR	A1089	27.467	13.286	-0.180	1.00	18.79	C
ATOM	678	OH	TYR	A1089	27.769	14.272	-1.110	1.00	18.83	O
ATOM	679	C	TYR	A1089	25.068	11.931	3.886	1.00	15.23	C
ATOM	680	O	TYR	A1089	24.480	12.749	3.172	1.00	14.55	O
ATOM	681	N	PHE	A1090	25.664	12.276	5.030	1.00	15.03	N
ATOM	682	CA	PHE	A1090	25.646	13.668	5.502	1.00	16.07	C
ATOM	683	CB	PHE	A1090	25.891	13.743	7.023	1.00	15.87	C
ATOM	684	CG	PHE	A1090	24.662	13.469	7.864	1.00	15.54	C
ATOM	685	CD1	PHE	A1090	24.359	12.176	8.287	1.00	14.81	C
ATOM	686	CD2	PHE	A1090	23.798	14.512	8.213	1.00	15.28	C
ATOM	687	CE1	PHE	A1090	23.207	11.920	9.048	1.00	15.40	C
ATOM	688	CE2	PHE	A1090	22.643	14.272	8.973	1.00	16.17	C
ATOM	689	CZ	PHE	A1090	22.347	12.971	9.390	1.00	15.25	C
ATOM	690	C	PHE	A1090	26.694	14.553	4.800	1.00	16.94	C
ATOM	691	O	PHE	A1090	27.898	14.378	5.005	1.00	15.67	O
ATOM	692	N	SER	A1091	26.233	15.499	3.983	1.00	18.05	N
ATOM	693	CA	SER	A1091	27.135	16.421	3.285	1.00	20.04	C
ATOM	694	CB	SER	A1091	26.528	16.864	1.949	1.00	20.26	C
ATOM	695	OG	SER	A1091	25.196	17.305	2.106	1.00	21.03	O
ATOM	696	C	SER	A1091	27.456	17.653	4.143	1.00	20.79	C
ATOM	697	O	SER	A1091	28.445	18.349	3.890	1.00	21.71	O
ATOM	698	N	GLN	A1092	26.606	17.930	5.133	1.00	20.94	N
ATOM	699	CA	GLN	A1092	26.810	19.049	6.062	1.00	21.39	C
ATOM	700	CB	GLN	A1092	25.958	20.265	5.665	1.00	23.27	C
ATOM	701	CG	GLN	A1092	26.267	20.898	4.305	1.00	25.76	C
ATOM	702	CD	GLN	A1092	27.623	21.589	4.244	1.00	27.71	C
ATOM	703	OE1	GLN	A1092	28.044	22.248	5.197	1.00	29.37	O
ATOM	704	NE2	GLN	A1092	28.301	21.461	3.106	1.00	28.25	N

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ATOM	705	C	GLN A1092	26.416	18.619	7.489	1.00	20.95	C
ATOM	706	O	GLN A1092	25.340	18.064	7.689	1.00	20.12	O
ATOM	707	N	ALA A1093	27.290	18.868	8.466	1.00	20.33	N
ATOM	708	CA	ALA A1093	27.030	18.533	9.874	1.00	20.84	C
ATOM	709	CB	ALA A1093	26.874	17.013	10.046	1.00	20.16	C
ATOM	710	C	ALA A1093	28.179	19.041	10.757	1.00	21.48	C
ATOM	711	O	ALA A1093	29.319	19.128	10.304	1.00	21.44	O
ATOM	712	N	PRO A1094	27.890	19.389	12.027	1.00	22.28	N
ATOM	713	CD	PRO A1094	26.539	19.598	12.585	1.00	22.57	C
ATOM	714	CA	PRO A1094	28.921	19.887	12.954	1.00	22.63	C
ATOM	715	CB	PRO A1094	28.125	20.803	13.876	1.00	22.88	C
ATOM	716	CG	PRO A1094	26.828	20.043	14.020	1.00	23.37	C
ATOM	717	C	PRO A1094	29.678	18.791	13.731	1.00	23.05	C
ATOM	718	O	PRO A1094	29.571	18.700	14.959	1.00	23.97	O
ATOM	719	N	PHE A1095	30.446	17.976	13.009	1.00	22.89	N
ATOM	720	CA	PHE A1095	31.232	16.883	13.590	1.00	22.99	C
ATOM	721	CB	PHE A1095	30.341	15.639	13.767	1.00	22.67	C
ATOM	722	CG	PHE A1095	31.067	14.436	14.307	1.00	22.55	C
ATOM	723	CD1	PHE A1095	31.374	13.360	13.474	1.00	22.34	C
ATOM	724	CD2	PHE A1095	31.462	14.385	15.641	1.00	22.13	C
ATOM	725	CE1	PHE A1095	32.068	12.250	13.963	1.00	22.27	C
ATOM	726	CE2	PHE A1095	32.156	13.281	16.143	1.00	22.71	C
ATOM	727	CZ	PHE A1095	32.461	12.209	15.300	1.00	22.51	C
ATOM	728	C	PHE A1095	32.406	16.592	12.639	1.00	23.22	C
ATOM	729	O	PHE A1095	32.221	16.574	11.426	1.00	23.38	O
ATOM	730	N	SER A1096	33.602	16.353	13.183	1.00	23.37	N
ATOM	731	CA	SER A1096	34.792	16.122	12.347	1.00	23.62	C
ATOM	732	CB	SER A1096	35.993	16.858	12.955	1.00	24.11	C
ATOM	733	OG	SER A1096	36.331	16.317	14.223	1.00	26.37	O
ATOM	734	C	SER A1096	35.233	14.691	12.000	1.00	23.23	C
ATOM	735	O	SER A1096	36.094	14.510	11.125	1.00	22.88	O
ATOM	736	N	GLY A1097	34.670	13.686	12.669	1.00	22.73	N
ATOM	737	CA	GLY A1097	35.043	12.304	12.391	1.00	21.96	C
ATOM	738	C	GLY A1097	34.138	11.589	11.393	1.00	21.41	C
ATOM	739	O	GLY A1097	33.518	12.232	10.555	1.00	21.73	O
ATOM	740	N	LYS A1098	34.066	10.259	11.479	1.00	20.96	N
ATOM	741	CA	LYS A1098	33.228	9.456	10.578	1.00	20.77	C
ATOM	742	CB	LYS A1098	33.822	8.052	10.409	1.00	22.35	C
ATOM	743	CG	LYS A1098	35.205	8.017	9.774	1.00	25.18	C
ATOM	744	CD	LYS A1098	35.630	6.587	9.449	1.00	26.26	C
ATOM	745	CE	LYS A1098	36.996	6.553	8.772	1.00	28.39	C
ATOM	746	NZ	LYS A1098	37.332	5.194	8.258	1.00	28.94	N
ATOM	747	C	LYS A1098	31.770	9.313	11.046	1.00	19.74	C
ATOM	748	O	LYS A1098	31.517	9.064	12.224	1.00	19.90	O
ATOM	749	N	ILE A1099	30.826	9.461	10.113	1.00	18.27	N
ATOM	750	CA	ILE A1099	29.393	9.340	10.400	1.00	17.38	C
ATOM	751	CB	ILE A1099	28.622	10.638	9.997	1.00	17.39	C
ATOM	752	CG2	ILE A1099	27.124	10.465	10.284	1.00	16.62	C
ATOM	753	CG1	ILE A1099	29.171	11.849	10.761	1.00	15.42	C
ATOM	754	CD1	ILE A1099	28.790	13.196	10.165	1.00	15.80	C
ATOM	755	C	ILE A1099	28.777	8.164	9.607	1.00	17.23	C
ATOM	756	O	ILE A1099	28.697	8.226	8.381	1.00	18.55	O
ATOM	757	N	TRP A1100	28.356	7.102	10.298	1.00	16.06	N
ATOM	758	CA	TRP A1100	27.733	5.939	9.641	1.00	15.73	C
ATOM	759	CB	TRP A1100	28.163	4.638	10.347	1.00	15.81	C
ATOM	760	CG	TRP A1100	29.665	4.374	10.328	1.00	16.55	C
ATOM	761	CD2	TRP A1100	30.415	3.750	9.274	1.00	16.48	C

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ATOM	819	CG	ASP	A1107	2.302	-0.116	2.886	1.00	29.94	C
ATOM	820	OD1	ASP	A1107	1.331	-0.672	2.332	1.00	32.47	O
ATOM	821	OD2	ASP	A1107	2.601	-0.314	4.086	1.00	32.30	O
ATOM	822	C	ASP	A1107	3.549	2.322	4.027	1.00	25.08	C
ATOM	823	O	ASP	A1107	2.673	3.156	3.791	1.00	25.52	O
ATOM	824	N	GLN	A1108	3.965	2.042	5.264	1.00	24.18	N
ATOM	825	CA	GLN	A1108	3.380	2.703	6.435	1.00	23.78	C
ATOM	826	CB	GLN	A1108	2.533	1.715	7.251	1.00	25.19	C
ATOM	827	CG	GLN	A1108	1.283	1.211	6.550	1.00	28.60	C
ATOM	828	CD	GLN	A1108	0.375	0.426	7.479	1.00	30.45	C
ATOM	829	OE1	GLN	A1108	0.768	-0.606	8.026	1.00	31.65	O
ATOM	830	NE2	GLN	A1108	-0.847	0.918	7.670	1.00	31.23	N
ATOM	831	C	GLN	A1108	4.361	3.391	7.390	1.00	22.77	C
ATOM	832	O	GLN	A1108	3.966	4.334	8.081	1.00	22.34	O
ATOM	833	N	PHE	A1109	5.616	2.926	7.441	1.00	21.34	N
ATOM	834	CA	PHE	A1109	6.633	3.513	8.342	1.00	20.67	C
ATOM	835	CB	PHE	A1109	6.888	2.605	9.567	1.00	21.50	C
ATOM	836	CG	PHE	A1109	5.654	2.213	10.328	1.00	22.53	C
ATOM	837	CD1	PHE	A1109	4.947	1.059	9.989	1.00	23.72	C
ATOM	838	CD2	PHE	A1109	5.212	2.978	11.403	1.00	23.05	C
ATOM	839	CE1	PHE	A1109	3.816	0.673	10.715	1.00	24.14	C
ATOM	840	CE2	PHE	A1109	4.082	2.601	12.135	1.00	24.05	C
ATOM	841	CZ	PHE	A1109	3.383	1.445	11.789	1.00	23.64	C
ATOM	842	C	PHE	A1109	8.015	3.755	7.705	1.00	19.29	C
ATOM	843	O	PHE	A1109	8.333	3.199	6.654	1.00	19.32	O
ATOM	844	N	VAL	A1110	8.830	4.582	8.368	1.00	18.27	N
ATOM	845	CA	VAL	A1110	10.218	4.864	7.955	1.00	16.90	C
ATOM	846	CB	VAL	A1110	10.368	6.279	7.299	1.00	17.79	C
ATOM	847	CG1	VAL	A1110	10.126	7.377	8.325	1.00	17.09	C
ATOM	848	CG2	VAL	A1110	11.754	6.428	6.681	1.00	17.98	C
ATOM	849	C	VAL	A1110	11.100	4.796	9.224	1.00	16.47	C
ATOM	850	O	VAL	A1110	10.655	5.214	10.300	1.00	15.21	O
ATOM	851	N	THR	A1111	12.323	4.260	9.097	1.00	15.44	N
ATOM	852	CA	THR	A1111	13.271	4.126	10.225	1.00	16.10	C
ATOM	853	CB	THR	A1111	13.369	2.646	10.736	1.00	16.89	C
ATOM	854	OG1	THR	A1111	13.775	1.775	9.667	1.00	18.14	O
ATOM	855	CG2	THR	A1111	12.038	2.180	11.274	1.00	18.11	C
ATOM	856	C	THR	A1111	14.692	4.582	9.860	1.00	15.27	C
ATOM	857	O	THR	A1111	15.082	4.502	8.690	1.00	14.78	O
ATOM	858	N	ALA	A1112	15.462	5.041	10.858	1.00	14.23	N
ATOM	859	CA	ALA	A1112	16.845	5.505	10.639	1.00	13.59	C
ATOM	860	CB	ALA	A1112	16.855	7.001	10.293	1.00	12.71	C
ATOM	861	C	ALA	A1112	17.764	5.255	11.843	1.00	12.99	C
ATOM	862	O	ALA	A1112	17.310	5.303	12.993	1.00	12.81	O
ATOM	863	N	SER	A1113	19.055	5.032	11.570	1.00	12.47	N
ATOM	864	CA	SER	A1113	20.064	4.761	12.610	1.00	13.04	C
ATOM	865	CB	SER	A1113	20.256	3.238	12.736	1.00	13.53	C
ATOM	866	OG	SER	A1113	21.244	2.893	13.698	1.00	13.09	O
ATOM	867	C	SER	A1113	21.427	5.444	12.318	1.00	13.78	C
ATOM	868	O	SER	A1113	21.901	5.419	11.180	1.00	13.46	O
ATOM	869	N	VAL	A1114	22.048	6.039	13.348	1.00	13.44	N
ATOM	870	CA	VAL	A1114	23.349	6.735	13.208	1.00	12.85	C
ATOM	871	CB	VAL	A1114	23.151	8.288	13.286	1.00	12.88	C
ATOM	872	CG1	VAL	A1114	24.496	9.005	13.384	1.00	12.82	C
ATOM	873	CG2	VAL	A1114	22.384	8.794	12.056	1.00	13.36	C
ATOM	874	C	VAL	A1114	24.393	6.328	14.278	1.00	12.70	C
ATOM	875	O	VAL	A1114	24.045	6.140	15.444	1.00	12.48	O

ATOM	876	N	ILE	A1115	25.662	6.183	13.873	1.00	13.61	N
ATOM	877	CA	ILE	A1115	26.765	5.846	14.800	1.00	13.97	C
ATOM	878	CB	ILE	A1115	27.291	4.399	14.621	1.00	14.70	C
ATOM	879	CG2	ILE	A1115	28.393	4.124	15.653	1.00	15.55	C
ATOM	880	CG1	ILE	A1115	26.163	3.377	14.800	1.00	14.56	C
ATOM	881	CD1	ILE	A1115	26.580	1.948	14.433	1.00	14.04	C
ATOM	882	C	ILE	A1115	27.940	6.786	14.502	1.00	15.39	C
ATOM	883	O	ILE	A1115	28.372	6.879	13.348	1.00	14.30	O
ATOM	884	N	LEU	A1116	28.456	7.465	15.537	1.00	15.93	N
ATOM	885	CA	LEU	A1116	29.574	8.412	15.397	1.00	16.40	C
ATOM	886	CB	LEU	A1116	29.300	9.680	16.235	1.00	16.45	C
ATOM	887	CG	LEU	A1116	27.972	10.439	16.051	1.00	15.86	C
ATOM	888	CD1	LEU	A1116	27.935	11.642	16.994	1.00	16.47	C
ATOM	889	CD2	LEU	A1116	27.816	10.888	14.601	1.00	16.74	C
ATOM	890	C	LEU	A1116	30.906	7.778	15.839	1.00	17.18	C
ATOM	891	O	LEU	A1116	30.973	7.125	16.880	1.00	15.82	O
ATOM	892	N	GLU	A1117	31.970	8.002	15.064	1.00	18.58	N
ATOM	893	CA	GLU	A1117	33.278	7.414	15.362	1.00	21.21	C
ATOM	894	CB	GLU	A1117	33.404	6.068	14.615	1.00	21.29	C
ATOM	895	CG	GLU	A1117	34.793	5.403	14.659	1.00	21.49	C
ATOM	896	CD	GLU	A1117	34.930	4.238	13.675	1.00	21.22	C
ATOM	897	OE1	GLU	A1117	34.538	4.390	12.500	1.00	20.57	O
ATOM	898	OE2	GLU	A1117	35.446	3.166	14.064	1.00	22.68	O
ATOM	899	C	GLU	A1117	34.487	8.290	15.001	1.00	23.59	C
ATOM	900	O	GLU	A1117	34.440	9.108	14.083	1.00	22.02	O
ATOM	901	N	GLU	A1118	35.576	8.115	15.740	1.00	27.34	N
ATOM	902	CA	GLU	A1118	36.801	8.839	15.429	1.00	31.25	C
ATOM	903	CB	GLU	A1118	36.859	10.184	16.157	1.00	33.00	C
ATOM	904	CG	GLU	A1118	36.747	10.131	17.651	1.00	35.45	C
ATOM	905	CD	GLU	A1118	37.042	11.480	18.269	1.00	37.44	C
ATOM	906	OE1	GLU	A1118	36.389	12.470	17.874	1.00	38.60	O
ATOM	907	OE2	GLU	A1118	37.932	11.551	19.145	1.00	39.01	O
ATOM	908	C	GLU	A1118	38.005	7.964	15.764	1.00	33.04	C
ATOM	909	O	GLU	A1118	38.074	7.358	16.835	1.00	33.37	O
ATOM	910	N	ASN	A1119	38.928	7.875	14.809	1.00	34.80	N
ATOM	911	CA	ASN	A1119	40.132	7.063	14.945	1.00	36.61	C
ATOM	912	CB	ASN	A1119	40.203	6.015	13.823	1.00	37.32	C
ATOM	913	CG	ASN	A1119	38.862	5.356	13.537	1.00	38.38	C
ATOM	914	OD1	ASN	A1119	38.258	4.731	14.409	1.00	39.30	O
ATOM	915	ND2	ASN	A1119	38.393	5.492	12.302	1.00	38.79	N
ATOM	916	C	ASN	A1119	41.354	7.972	14.845	1.00	37.29	C
ATOM	917	O	ASN	A1119	42.132	7.795	13.885	1.00	37.98	O
ATOM	918	OXT	ASN	A1119	41.513	8.857	15.710	1.00	38.37	O
TER	919		ASN	A1119						
ATOM	920	CB	MET	B2003	37.510	-3.957	21.175	1.00	28.67	C
ATOM	921	CG	MET	B2003	37.230	-5.443	21.092	1.00	31.61	C
ATOM	922	SD	MET	B2003	38.381	-6.420	22.089	1.00	36.00	S
ATOM	923	CE	MET	B2003	37.478	-6.538	23.632	1.00	34.64	C
ATOM	924	C	MET	B2003	35.111	-3.318	20.851	1.00	24.52	C
ATOM	925	O	MET	B2003	34.821	-3.223	22.044	1.00	23.78	O
ATOM	926	N	MET	B2003	36.911	-1.645	20.536	1.00	26.75	N
ATOM	927	CA	MET	B2003	36.543	-3.080	20.373	1.00	26.43	C
ATOM	928	N	ILE	B2004	34.220	-3.611	19.907	1.00	23.33	N
ATOM	929	CA	ILE	B2004	32.814	-3.877	20.214	1.00	21.77	C
ATOM	930	CB	ILE	B2004	31.948	-3.818	18.923	1.00	22.25	C
ATOM	931	CG2	ILE	B2004	30.528	-4.317	19.214	1.00	21.40	C
ATOM	932	CG1	ILE	B2004	31.936	-2.387	18.370	1.00	22.04	C

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ATOM	933	CD1	ILE	B2004	31.248	-2.242	17.013	1.00	23.31	C
ATOM	934	C	ILE	B2004	32.688	-5.268	20.837	1.00	21.10	C
ATOM	935	O	ILE	B2004	33.423	-6.190	20.463	1.00	21.53	O
ATOM	936	N	VAL	B2005	31.774	-5.423	21.793	1.00	19.59	N
ATOM	937	CA	VAL	B2005	31.577	-6.725	22.423	1.00	18.29	C
ATOM	938	CB	VAL	B2005	32.240	-6.783	23.834	1.00	18.82	C
ATOM	939	CG1	VAL	B2005	33.741	-6.518	23.712	1.00	18.55	C
ATOM	940	CG2	VAL	B2005	31.596	-5.776	24.778	1.00	19.42	C
ATOM	941	C	VAL	B2005	30.108	-7.189	22.520	1.00	17.17	C
ATOM	942	O	VAL	B2005	29.827	-8.180	23.193	1.00	16.88	O
ATOM	943	N	GLY	B2006	29.190	-6.493	21.838	1.00	15.24	N
ATOM	944	CA	GLY	B2006	27.776	-6.881	21.849	1.00	14.41	C
ATOM	945	C	GLY	B2006	26.800	-5.899	21.191	1.00	13.76	C
ATOM	946	O	GLY	B2006	27.067	-4.703	21.177	1.00	12.82	O
ATOM	947	N	HIS	B2007	25.667	-6.388	20.664	1.00	13.79	N
ATOM	948	CA	HIS	B2007	24.656	-5.521	20.015	1.00	13.97	C
ATOM	949	CB	HIS	B2007	25.046	-5.296	18.534	1.00	13.17	C
ATOM	950	CG	HIS	B2007	24.110	-4.400	17.767	1.00	13.29	C
ATOM	951	CD2	HIS	B2007	23.648	-4.481	16.494	1.00	13.60	C
ATOM	952	ND1	HIS	B2007	23.602	-3.224	18.281	1.00	14.70	N
ATOM	953	CE1	HIS	B2007	22.871	-2.619	17.357	1.00	15.43	C
ATOM	954	NE2	HIS	B2007	22.884	-3.360	16.262	1.00	13.92	N
ATOM	955	C	HIS	B2007	23.227	-6.108	20.104	1.00	13.36	C
ATOM	956	O	HIS	B2007	23.024	-7.293	19.817	1.00	13.30	O
ATOM	957	N	GLY	B2008	22.249	-5.286	20.504	1.00	13.56	N
ATOM	958	CA	GLY	B2008	20.870	-5.758	20.603	1.00	13.42	C
ATOM	959	C	GLY	B2008	19.760	-4.724	20.407	1.00	13.33	C
ATOM	960	O	GLY	B2008	19.921	-3.566	20.786	1.00	13.08	O
ATOM	961	N	ILE	B2009	18.630	-5.143	19.827	1.00	13.48	N
ATOM	962	CA	ILE	B2009	17.476	-4.253	19.601	1.00	13.81	C
ATOM	963	CB	ILE	B2009	17.327	-3.864	18.086	1.00	14.27	C
ATOM	964	CG2	ILE	B2009	18.651	-3.276	17.549	1.00	14.33	C
ATOM	965	CG1	ILE	B2009	16.931	-5.091	17.257	1.00	14.49	C
ATOM	966	CD1	ILE	B2009	16.666	-4.783	15.777	1.00	15.47	C
ATOM	967	C	ILE	B2009	16.155	-4.916	20.066	1.00	14.94	C
ATOM	968	O	ILE	B2009	16.090	-6.145	20.190	1.00	14.51	O
ATOM	969	N	ASP	B2010	15.115	-4.111	20.318	1.00	15.66	N
ATOM	970	CA	ASP	B2010	13.806	-4.644	20.746	1.00	17.47	C
ATOM	971	CB	ASP	B2010	13.820	-4.974	22.250	1.00	18.72	C
ATOM	972	CG	ASP	B2010	12.474	-5.527	22.757	1.00	19.74	C
ATOM	973	OD1	ASP	B2010	11.670	-4.747	23.311	1.00	21.08	O
ATOM	974	OD2	ASP	B2010	12.214	-6.740	22.593	1.00	19.62	O
ATOM	975	C	ASP	B2010	12.623	-3.709	20.447	1.00	18.58	C
ATOM	976	O	ASP	B2010	12.769	-2.483	20.472	1.00	17.47	O
ATOM	977	N	ILE	B2011	11.465	-4.304	20.148	1.00	19.97	N
ATOM	978	CA	ILE	B2011	10.224	-3.558	19.874	1.00	22.59	C
ATOM	979	CB	ILE	B2011	9.666	-3.817	18.459	1.00	23.44	C
ATOM	980	CG2	ILE	B2011	8.532	-2.831	18.167	1.00	24.17	C
ATOM	981	CG1	ILE	B2011	10.752	-3.688	17.411	1.00	23.83	C
ATOM	982	CD1	ILE	B2011	10.368	-4.350	16.110	1.00	24.58	C
ATOM	983	C	ILE	B2011	9.134	-4.066	20.833	1.00	23.70	C
ATOM	984	O	ILE	B2011	9.039	-5.271	21.078	1.00	23.87	O
ATOM	985	N	GLU	B2012	8.305	-3.166	21.359	1.00	24.36	N
ATOM	986	CA	GLU	B2012	7.232	-3.569	22.270	1.00	25.44	C
ATOM	987	CB	GLU	B2012	7.626	-3.297	23.723	1.00	26.83	C
ATOM	988	CG	GLU	B2012	6.659	-3.896	24.741	1.00	29.96	C
ATOM	989	CD	GLU	B2012	6.806	-5.408	24.892	1.00	32.18	C

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ATOM	990	OE1	GLU	B2012	7.094	-6.098	23.888	1.00	33.01	O
ATOM	991	OE2	GLU	B2012	6.617	-5.908	26.024	1.00	33.41	O
ATOM	992	C	GLU	B2012	5.915	-2.848	21.952	1.00	25.77	C
ATOM	993	O	GLU	B2012	5.911	-1.677	21.585	1.00	24.25	O
ATOM	994	N	GLU	B2013	4.800	-3.563	22.089	1.00	26.07	N
ATOM	995	CA	GLU	B2013	3.483	-2.997	21.806	1.00	26.79	C
ATOM	996	CB	GLU	B2013	2.546	-4.097	21.294	1.00	27.06	C
ATOM	997	CG	GLU	B2013	3.025	-4.777	20.014	1.00	27.29	C
ATOM	998	CD	GLU	B2013	2.147	-5.943	19.607	0.05	27.19	C
ATOM	999	OE1	GLU	B2013	0.920	-5.750	19.479	0.05	27.19	O
ATOM	1000	OE2	GLU	B2013	2.684	-7.054	19.413	0.05	27.19	O
ATOM	1001	C	GLU	B2013	2.895	-2.358	23.061	1.00	27.09	C
ATOM	1002	O	GLU	B2013	2.816	-2.998	24.113	1.00	27.20	O
ATOM	1003	N	LEU	B2014	2.489	-1.096	22.952	1.00	27.74	N
ATOM	1004	CA	LEU	B2014	1.915	-0.383	24.088	1.00	28.99	C
ATOM	1005	CB	LEU	B2014	1.448	1.015	23.666	1.00	29.85	C
ATOM	1006	CG	LEU	B2014	2.499	2.064	23.293	1.00	30.49	C
ATOM	1007	CD1	LEU	B2014	1.802	3.353	22.863	1.00	31.36	C
ATOM	1008	CD2	LEU	B2014	3.408	2.332	24.477	1.00	30.66	C
ATOM	1009	C	LEU	B2014	0.742	-1.144	24.705	1.00	29.62	C
ATOM	1010	O	LEU	B2014	0.614	-1.209	25.924	1.00	28.92	O
ATOM	1011	N	ALA	B2015	-0.103	-1.723	23.855	1.00	30.68	N
ATOM	1012	CA	ALA	B2015	-1.273	-2.468	24.312	1.00	31.89	C
ATOM	1013	CB	ALA	B2015	-2.062	-2.992	23.106	1.00	31.63	C
ATOM	1014	C	ALA	B2015	-0.942	-3.624	25.256	1.00	32.68	C
ATOM	1015	O	ALA	B2015	-1.705	-3.913	26.180	1.00	32.95	O
ATOM	1016	N	SER	B2016	0.192	-4.282	25.026	1.00	32.98	N
ATOM	1017	CA	SER	B2016	0.599	-5.409	25.861	1.00	33.69	C
ATOM	1018	CB	SER	B2016	1.758	-6.157	25.205	1.00	34.30	C
ATOM	1019	OG	SER	B2016	1.360	-6.697	23.955	1.00	36.37	O
ATOM	1020	C	SER	B2016	0.993	-4.981	27.271	1.00	33.62	C
ATOM	1021	O	SER	B2016	0.707	-5.680	28.242	1.00	33.30	O
ATOM	1022	N	ILE	B2017	1.656	-3.835	27.384	1.00	33.85	N
ATOM	1023	CA	ILE	B2017	2.056	-3.339	28.694	1.00	34.29	C
ATOM	1024	CB	ILE	B2017	2.995	-2.115	28.571	1.00	34.08	C
ATOM	1025	CG2	ILE	B2017	3.350	-1.588	29.958	1.00	33.83	C
ATOM	1026	CG1	ILE	B2017	4.264	-2.501	27.800	1.00	33.75	C
ATOM	1027	CD1	ILE	B2017	5.080	-3.611	28.449	1.00	33.98	C
ATOM	1028	C	ILE	B2017	0.802	-2.932	29.474	1.00	35.14	C
ATOM	1029	O	ILE	B2017	0.714	-3.143	30.683	1.00	34.67	O
ATOM	1030	N	GLU	B2018	-0.172	-2.362	28.770	1.00	36.36	N
ATOM	1031	CA	GLU	B2018	-1.414	-1.925	29.402	1.00	37.92	C
ATOM	1032	CB	GLU	B2018	-2.292	-1.189	28.386	1.00	38.65	C
ATOM	1033	CG	GLU	B2018	-1.548	-0.122	27.599	1.00	40.03	C
ATOM	1034	CD	GLU	B2018	-2.462	0.705	26.716	1.00	41.09	C
ATOM	1035	OE1	GLU	B2018	-3.463	0.148	26.216	1.00	41.60	O
ATOM	1036	OE2	GLU	B2018	-2.172	1.907	26.510	1.00	41.15	O
ATOM	1037	C	GLU	B2018	-2.189	-3.093	30.011	1.00	38.32	C
ATOM	1038	O	GLU	B2018	-2.697	-2.993	31.129	1.00	39.05	O
ATOM	1039	N	SER	B2019	-2.281	-4.198	29.278	1.00	38.71	N
ATOM	1040	CA	SER	B2019	-2.989	-5.375	29.771	1.00	39.10	C
ATOM	1041	CB	SER	B2019	-2.996	-6.476	28.709	1.00	39.02	C
ATOM	1042	OG	SER	B2019	-3.734	-6.082	27.568	1.00	39.39	O
ATOM	1043	C	SER	B2019	-2.332	-5.903	31.044	1.00	39.56	C
ATOM	1044	O	SER	B2019	-3.013	-6.228	32.016	1.00	39.07	O
ATOM	1045	N	ALA	B2020	-1.004	-5.983	31.031	1.00	39.92	N
ATOM	1046	CA	ALA	B2020	-0.253	-6.471	32.182	1.00	40.75	C

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ATOM	1047	CB	ALA	B2020	1.240	-6.474	31.866	1.00	39.96	C
ATOM	1048	C	ALA	B2020	-0.531	-5.614	33.415	1.00	41.51	C
ATOM	1049	O	ALA	B2020	-0.584	-6.122	34.535	1.00	41.34	O
ATOM	1050	N	VAL	B2021	-0.704	-4.314	33.202	1.00	42.82	N
ATOM	1051	CA	VAL	B2021	-0.985	-3.390	34.295	1.00	44.39	C
ATOM	1052	CB	VAL	B2021	-0.767	-1.922	33.855	1.00	44.31	C
ATOM	1053	CG1	VAL	B2021	-1.303	-0.971	34.913	1.00	44.07	C
ATOM	1054	CG2	VAL	B2021	0.718	-1.663	33.627	1.00	44.22	C
ATOM	1055	C	VAL	B2021	-2.424	-3.555	34.787	1.00	45.72	C
ATOM	1056	O	VAL	B2021	-2.673	-3.604	35.992	1.00	45.74	O
ATOM	1057	N	THR	B2022	-3.365	-3.642	33.851	1.00	47.27	N
ATOM	1058	CA	THR	B2022	-4.776	-3.801	34.191	1.00	48.73	C
ATOM	1059	CB	THR	B2022	-5.661	-3.833	32.919	1.00	49.02	C
ATOM	1060	OG1	THR	B2022	-5.482	-2.619	32.177	1.00	49.29	O
ATOM	1061	CG2	THR	B2022	-7.134	-3.968	33.293	1.00	49.42	C
ATOM	1062	C	THR	B2022	-4.988	-5.093	34.977	1.00	49.61	C
ATOM	1063	O	THR	B2022	-5.953	-5.225	35.733	1.00	49.90	O
ATOM	1064	N	ARG	B2023	-4.077	-6.043	34.794	1.00	50.61	N
ATOM	1065	CA	ARG	B2023	-4.152	-7.325	35.484	1.00	51.35	C
ATOM	1066	CB	ARG	B2023	-3.028	-8.245	35.009	1.00	52.09	C
ATOM	1067	CG	ARG	B2023	-3.416	-9.710	34.907	1.00	53.02	C
ATOM	1068	CD	ARG	B2023	-3.676	-10.103	33.461	1.00	54.10	C
ATOM	1069	NE	ARG	B2023	-2.492	-9.895	32.628	1.00	54.73	N
ATOM	1070	CZ	ARG	B2023	-2.419	-10.194	31.334	1.00	55.21	C
ATOM	1071	NH1	ARG	B2023	-3.465	-10.720	30.710	1.00	55.43	N
ATOM	1072	NH2	ARG	B2023	-1.296	-9.967	30.663	1.00	55.24	N
ATOM	1073	C	ARG	B2023	-4.025	-7.093	36.989	1.00	51.64	C
ATOM	1074	O	ARG	B2023	-4.448	-7.924	37.794	1.00	51.91	O
ATOM	1075	N	HIS	B2024	-3.428	-5.960	37.354	1.00	51.80	N
ATOM	1076	CA	HIS	B2024	-3.242	-5.575	38.753	1.00	51.59	C
ATOM	1077	CB	HIS	B2024	-4.586	-5.645	39.491	1.00	52.56	C
ATOM	1078	CG	HIS	B2024	-4.528	-5.165	40.908	1.00	53.50	C
ATOM	1079	CD2	HIS	B2024	-4.815	-5.791	42.074	1.00	53.85	C
ATOM	1080	ND1	HIS	B2024	-4.142	-3.886	41.245	1.00	53.73	N
ATOM	1081	CE1	HIS	B2024	-4.195	-3.743	42.557	1.00	54.11	C
ATOM	1082	NE2	HIS	B2024	-4.601	-4.885	43.084	1.00	54.34	N
ATOM	1083	C	HIS	B2024	-2.207	-6.427	39.490	1.00	50.92	C
ATOM	1084	O	HIS	B2024	-1.802	-6.100	40.607	1.00	51.09	O
ATOM	1085	N	GLU	B2025	-1.777	-7.511	38.853	1.00	49.85	N
ATOM	1086	CA	GLU	B2025	-0.805	-8.436	39.429	1.00	48.60	C
ATOM	1087	CB	GLU	B2025	-0.133	-9.231	38.309	1.00	49.70	C
ATOM	1088	CG	GLU	B2025	-1.109	-9.812	37.300	1.00	50.84	C
ATOM	1089	CD	GLU	B2025	-0.430	-10.676	36.255	1.00	51.43	C
ATOM	1090	OE1	GLU	B2025	0.084	-11.754	36.617	1.00	52.08	O
ATOM	1091	OE2	GLU	B2025	-0.408	-10.276	35.073	1.00	51.96	O
ATOM	1092	C	GLU	B2025	0.274	-7.788	40.301	1.00	47.18	C
ATOM	1093	O	GLU	B2025	0.636	-8.322	41.350	1.00	47.28	O
ATOM	1094	N	GLY	B2026	0.779	-6.638	39.864	1.00	45.23	N
ATOM	1095	CA	GLY	B2026	1.832	-5.953	40.598	1.00	42.17	C
ATOM	1096	C	GLY	B2026	3.021	-5.830	39.663	1.00	39.71	C
ATOM	1097	O	GLY	B2026	4.185	-5.914	40.066	1.00	39.77	O
ATOM	1098	N	PHE	B2027	2.695	-5.632	38.392	1.00	37.19	N
ATOM	1099	CA	PHE	B2027	3.667	-5.509	37.315	1.00	34.55	C
ATOM	1100	CB	PHE	B2027	2.922	-5.189	36.014	1.00	34.52	C
ATOM	1101	CG	PHE	B2027	3.752	-5.355	34.777	1.00	34.13	C
ATOM	1102	CD1	PHE	B2027	4.207	-6.613	34.393	1.00	34.08	C
ATOM	1103	CD2	PHE	B2027	4.067	-4.258	33.986	1.00	34.08	C

ATOM	1104	CE1	PHE	B2027	4.963	-6.776	33.237	1.00	34.11	C
ATOM	1105	CE2	PHE	B2027	4.825	-4.409	32.824	1.00	34.27	C
ATOM	1106	CZ	PHE	B2027	5.274	-5.670	32.449	1.00	34.06	C
ATOM	1107	C	PHE	B2027	4.755	-4.459	37.559	1.00	32.71	C
ATOM	1108	O	PHE	B2027	5.933	-4.794	37.676	1.00	31.86	O
ATOM	1109	N	ALA	B2028	4.352	-3.192	37.631	1.00	30.82	N
ATOM	1110	CA	ALA	B2028	5.284	-2.082	37.831	1.00	29.20	C
ATOM	1111	CB	ALA	B2028	4.506	-0.787	38.047	1.00	29.12	C
ATOM	1112	C	ALA	B2028	6.290	-2.269	38.966	1.00	28.66	C
ATOM	1113	O	ALA	B2028	7.451	-1.884	38.836	1.00	27.76	O
ATOM	1114	N	LYS	B2029	5.846	-2.853	40.075	1.00	27.74	N
ATOM	1115	CA	LYS	B2029	6.718	-3.065	41.226	1.00	27.62	C
ATOM	1116	CB	LYS	B2029	5.899	-3.552	42.423	1.00	27.96	C
ATOM	1117	CG	LYS	B2029	5.853	-2.569	43.584	1.00	28.74	C
ATOM	1118	CD	LYS	B2029	7.247	-2.299	44.131	0.05	28.50	C
ATOM	1119	CE	LYS	B2029	7.204	-1.384	45.343	0.05	28.61	C
ATOM	1120	NZ	LYS	B2029	6.454	-1.997	46.474	0.05	28.56	N
ATOM	1121	C	LYS	B2029	7.864	-4.042	40.969	1.00	27.09	C
ATOM	1122	O	LYS	B2029	8.937	-3.910	41.555	1.00	27.52	O
ATOM	1123	N	ARG	B2030	7.642	-5.022	40.099	1.00	25.99	N
ATOM	1124	CA	ARG	B2030	8.682	-6.002	39.803	1.00	24.71	C
ATOM	1125	CB	ARG	B2030	8.048	-7.358	39.465	1.00	25.36	C
ATOM	1126	CG	ARG	B2030	7.303	-7.990	40.631	0.05	25.04	C
ATOM	1127	CD	ARG	B2030	6.804	-9.384	40.291	0.05	25.09	C
ATOM	1128	NE	ARG	B2030	6.143	-10.015	41.430	0.05	25.02	N
ATOM	1129	CZ	ARG	B2030	5.651	-11.249	41.421	0.05	25.00	C
ATOM	1130	NH1	ARG	B2030	5.742	-11.996	40.329	0.05	24.97	N
ATOM	1131	NH2	ARG	B2030	5.067	-11.739	42.506	0.05	24.97	N
ATOM	1132	C	ARG	B2030	9.616	-5.566	38.674	1.00	23.43	C
ATOM	1133	O	ARG	B2030	10.763	-6.008	38.613	1.00	22.95	O
ATOM	1134	N	VAL	B2031	9.131	-4.688	37.797	1.00	22.08	N
ATOM	1135	CA	VAL	B2031	9.924	-4.202	36.665	1.00	20.91	C
ATOM	1136	CB	VAL	B2031	8.998	-3.878	35.447	1.00	21.66	C
ATOM	1137	CG1	VAL	B2031	9.804	-3.269	34.307	1.00	21.12	C
ATOM	1138	CG2	VAL	B2031	8.311	-5.152	34.961	1.00	21.59	C
ATOM	1139	C	VAL	B2031	10.806	-2.971	36.946	1.00	20.08	C
ATOM	1140	O	VAL	B2031	11.891	-2.840	36.362	1.00	18.87	O
ATOM	1141	N	LEU	B2032	10.362	-2.096	37.851	1.00	18.43	N
ATOM	1142	CA	LEU	B2032	11.093	-0.857	38.170	1.00	18.33	C
ATOM	1143	CB	LEU	B2032	10.123	0.333	38.094	1.00	18.11	C
ATOM	1144	CG	LEU	B2032	9.264	0.562	36.836	1.00	17.77	C
ATOM	1145	CD1	LEU	B2032	8.288	1.710	37.095	1.00	18.63	C
ATOM	1146	CD2	LEU	B2032	10.141	0.893	35.642	1.00	18.26	C
ATOM	1147	C	LEU	B2032	11.809	-0.804	39.537	1.00	18.11	C
ATOM	1148	O	LEU	B2032	11.313	-1.351	40.528	1.00	17.53	O
ATOM	1149	N	THR	B2033	12.964	-0.133	39.589	1.00	17.46	N
ATOM	1150	CA	THR	B2033	13.707	0.022	40.848	1.00	17.07	C
ATOM	1151	CB	THR	B2033	15.178	0.466	40.617	1.00	17.19	C
ATOM	1152	OG1	THR	B2033	15.199	1.760	39.996	1.00	17.05	O
ATOM	1153	CG2	THR	B2033	15.919	-0.544	39.733	1.00	15.96	C
ATOM	1154	C	THR	B2033	13.010	1.107	41.686	1.00	17.66	C
ATOM	1155	O	THR	B2033	12.042	1.720	41.234	1.00	17.87	O
ATOM	1156	N	ALA	B2034	13.501	1.355	42.896	1.00	17.54	N
ATOM	1157	CA	ALA	B2034	12.886	2.367	43.757	1.00	18.74	C
ATOM	1158	CB	ALA	B2034	13.565	2.369	45.123	1.00	18.99	C
ATOM	1159	C	ALA	B2034	12.925	3.771	43.145	1.00	18.65	C
ATOM	1160	O	ALA	B2034	11.930	4.503	43.188	1.00	18.77	O

ATOM	1161	N	LEU	B2035	14.066	4.148	42.572	1.00	18.26	N
ATOM	1162	CA	LEU	B2035	14.216	5.470	41.962	1.00	19.09	C
ATOM	1163	CB	LEU	B2035	15.697	5.742	41.665	1.00	20.60	C
ATOM	1164	CG	LEU	B2035	16.154	7.182	41.435	1.00	22.12	C
ATOM	1165	CD1	LEU	B2035	15.976	8.015	42.714	1.00	23.52	C
ATOM	1166	CD2	LEU	B2035	17.618	7.173	41.031	1.00	24.30	C
ATOM	1167	C	LEU	B2035	13.383	5.610	40.680	1.00	18.93	C
ATOM	1168	O	LEU	B2035	12.801	6.670	40.430	1.00	19.57	O
ATOM	1169	N	GLU	B2036	13.333	4.559	39.858	1.00	18.62	N
ATOM	1170	CA	GLU	B2036	12.533	4.604	38.626	1.00	18.35	C
ATOM	1171	CB	GLU	B2036	12.733	3.327	37.784	1.00	17.51	C
ATOM	1172	CG	GLU	B2036	14.085	3.215	37.042	1.00	15.99	C
ATOM	1173	CD	GLU	B2036	14.300	1.848	36.391	1.00	16.12	C
ATOM	1174	OE1	GLU	B2036	15.007	1.777	35.361	1.00	15.21	O
ATOM	1175	OE2	GLU	B2036	13.781	0.836	36.911	1.00	15.16	O
ATOM	1176	C	GLU	B2036	11.039	4.744	38.982	1.00	19.23	C
ATOM	1177	O	GLU	B2036	10.290	5.440	38.296	1.00	19.60	O
ATOM	1178	N	MET	B2037	10.616	4.074	40.051	1.00	19.86	N
ATOM	1179	CA	MET	B2037	9.219	4.123	40.501	1.00	21.88	C
ATOM	1180	CB	MET	B2037	9.008	3.086	41.615	1.00	22.85	C
ATOM	1181	CG	MET	B2037	7.623	3.055	42.236	1.00	25.86	C
ATOM	1182	SD	MET	B2037	6.356	2.391	41.143	1.00	28.53	S
ATOM	1183	CE	MET	B2037	6.759	0.626	41.201	1.00	27.97	C
ATOM	1184	C	MET	B2037	8.834	5.528	41.000	1.00	22.03	C
ATOM	1185	O	MET	B2037	7.716	6.006	40.772	1.00	22.35	O
ATOM	1186	N	GLU	B2038	9.759	6.187	41.687	1.00	22.54	N
ATOM	1187	CA	GLU	B2038	9.501	7.528	42.194	1.00	23.34	C
ATOM	1188	CB	GLU	B2038	10.663	7.973	43.101	1.00	23.49	C
ATOM	1189	CG	GLU	B2038	10.475	7.496	44.550	1.00	24.52	C
ATOM	1190	CD	GLU	B2038	11.772	7.284	45.326	1.00	25.50	C
ATOM	1191	OE1	GLU	B2038	12.785	7.962	45.036	1.00	25.67	O
ATOM	1192	OE2	GLU	B2038	11.765	6.439	46.251	1.00	25.94	O
ATOM	1193	C	GLU	B2038	9.252	8.513	41.046	1.00	23.18	C
ATOM	1194	O	GLU	B2038	8.512	9.482	41.200	1.00	23.42	O
ATOM	1195	N	ARG	B2039	9.854	8.250	39.888	1.00	23.18	N
ATOM	1196	CA	ARG	B2039	9.659	9.097	38.713	1.00	23.42	C
ATOM	1197	CB	ARG	B2039	10.801	8.888	37.710	1.00	24.21	C
ATOM	1198	CG	ARG	B2039	10.566	9.517	36.338	1.00	24.82	C
ATOM	1199	CD	ARG	B2039	10.414	11.027	36.415	0.05	24.52	C
ATOM	1200	NE	ARG	B2039	10.169	11.609	35.099	0.05	24.58	N
ATOM	1201	CZ	ARG	B2039	9.995	12.908	34.873	0.05	24.54	C
ATOM	1202	NH1	ARG	B2039	9.776	13.344	33.640	0.05	24.55	N
ATOM	1203	NH2	ARG	B2039	10.039	13.771	35.879	0.05	24.55	N
ATOM	1204	C	ARG	B2039	8.323	8.738	38.057	1.00	22.97	C
ATOM	1205	O	ARG	B2039	7.591	9.614	37.594	1.00	23.62	O
ATOM	1206	N	PHE	B2040	8.015	7.443	38.037	1.00	22.59	N
ATOM	1207	CA	PHE	B2040	6.777	6.914	37.456	1.00	23.04	C
ATOM	1208	CB	PHE	B2040	6.769	5.381	37.598	1.00	23.27	C
ATOM	1209	CG	PHE	B2040	5.520	4.705	37.082	1.00	24.49	C
ATOM	1210	CD1	PHE	B2040	5.270	4.604	35.716	1.00	24.75	C
ATOM	1211	CD2	PHE	B2040	4.611	4.125	37.971	1.00	24.92	C
ATOM	1212	CE1	PHE	B2040	4.135	3.930	35.240	1.00	25.22	C
ATOM	1213	CE2	PHE	B2040	3.473	3.451	37.509	1.00	24.72	C
ATOM	1214	CZ	PHE	B2040	3.236	3.353	36.139	1.00	25.48	C
ATOM	1215	C	PHE	B2040	5.529	7.506	38.126	1.00	23.15	C
ATOM	1216	O	PHE	B2040	4.558	7.841	37.448	1.00	22.73	O
ATOM	1217	N	THR	B2041	5.559	7.636	39.452	1.00	23.63	N

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ATOM	1218	CA	THR	B2041	4.407	8.165	40.186	1.00	25.06	C
ATOM	1219	CB	THR	B2041	4.487	7.819	41.701	1.00	24.62	C
ATOM	1220	OG1	THR	B2041	5.710	8.322	42.250	1.00	24.25	O
ATOM	1221	CG2	THR	B2041	4.421	6.311	41.910	1.00	24.17	C
ATOM	1222	C	THR	B2041	4.156	9.669	40.050	1.00	25.84	C
ATOM	1223	O	THR	B2041	3.089	10.155	40.442	1.00	26.22	O
ATOM	1224	N	SER	B2042	5.119	10.412	39.508	1.00	27.24	N
ATOM	1225	CA	SER	B2042	4.939	11.856	39.346	1.00	28.70	C
ATOM	1226	CB	SER	B2042	6.256	12.605	39.605	1.00	29.90	C
ATOM	1227	OG	SER	B2042	7.260	12.270	38.658	1.00	31.49	O
ATOM	1228	C	SER	B2042	4.404	12.214	37.959	1.00	29.44	C
ATOM	1229	O	SER	B2042	4.245	13.392	37.632	1.00	28.96	O
ATOM	1230	N	LEU	B2043	4.127	11.192	37.151	1.00	29.93	N
ATOM	1231	CA	LEU	B2043	3.598	11.379	35.797	1.00	30.98	C
ATOM	1232	CB	LEU	B2043	4.466	10.622	34.779	1.00	30.83	C
ATOM	1233	CG	LEU	B2043	5.925	11.061	34.614	1.00	30.66	C
ATOM	1234	CD1	LEU	B2043	6.690	10.037	33.778	1.00	31.31	C
ATOM	1235	CD2	LEU	B2043	5.970	12.431	33.960	1.00	31.38	C
ATOM	1236	C	LEU	B2043	2.160	10.864	35.712	1.00	31.75	C
ATOM	1237	O	LEU	B2043	1.711	10.106	36.573	1.00	31.45	O
ATOM	1238	N	LYS	B2044	1.440	11.264	34.668	1.00	33.21	N
ATOM	1239	CA	LYS	B2044	0.059	10.820	34.497	1.00	34.53	C
ATOM	1240	CB	LYS	B2044	-0.904	11.853	35.100	1.00	35.00	C
ATOM	1241	CG	LYS	B2044	-2.362	11.415	35.118	0.05	34.86	C
ATOM	1242	CD	LYS	B2044	-3.267	12.481	35.714	0.05	34.96	C
ATOM	1243	CE	LYS	B2044	-4.718	12.025	35.718	0.05	34.95	C
ATOM	1244	NZ	LYS	B2044	-5.625	13.056	36.293	0.05	35.07	N
ATOM	1245	C	LYS	B2044	-0.311	10.580	33.035	1.00	35.45	C
ATOM	1246	O	LYS	B2044	0.422	10.960	32.121	1.00	35.43	O
ATOM	1247	N	GLY	B2045	-1.454	9.934	32.829	1.00	36.33	N
ATOM	1248	CA	GLY	B2045	-1.940	9.671	31.488	1.00	37.45	C
ATOM	1249	C	GLY	B2045	-1.031	8.869	30.579	1.00	38.02	C
ATOM	1250	O	GLY	B2045	-0.215	8.065	31.036	1.00	38.35	O
ATOM	1251	N	ARG	B2046	-1.187	9.099	29.279	1.00	38.11	N
ATOM	1252	CA	ARG	B2046	-0.414	8.409	28.250	1.00	38.00	C
ATOM	1253	CB	ARG	B2046	-0.718	9.026	26.882	1.00	38.22	C
ATOM	1254	CG	ARG	B2046	-2.203	9.241	26.635	0.05	38.32	C
ATOM	1255	CD	ARG	B2046	-2.469	9.951	25.319	0.05	38.47	C
ATOM	1256	NE	ARG	B2046	-2.193	9.103	24.164	0.05	38.58	N
ATOM	1257	CZ	ARG	B2046	-2.418	9.462	22.904	0.05	38.64	C
ATOM	1258	NH1	ARG	B2046	-2.138	8.626	21.915	0.05	38.67	N
ATOM	1259	NH2	ARG	B2046	-2.925	10.657	22.633	0.05	38.67	N
ATOM	1260	C	ARG	B2046	1.083	8.472	28.516	1.00	37.79	C
ATOM	1261	O	ARG	B2046	1.809	7.514	28.262	1.00	37.64	O
ATOM	1262	N	ARG	B2047	1.534	9.611	29.031	1.00	37.35	N
ATOM	1263	CA	ARG	B2047	2.945	9.827	29.327	1.00	36.86	C
ATOM	1264	CB	ARG	B2047	3.139	11.262	29.824	1.00	38.35	C
ATOM	1265	CG	ARG	B2047	4.529	11.834	29.622	1.00	40.01	C
ATOM	1266	CD	ARG	B2047	4.591	13.258	30.156	1.00	41.52	C
ATOM	1267	NE	ARG	B2047	5.880	13.894	29.903	1.00	43.12	N
ATOM	1268	CZ	ARG	B2047	6.276	15.030	30.471	1.00	44.06	C
ATOM	1269	NH1	ARG	B2047	7.467	15.539	30.180	1.00	44.67	N
ATOM	1270	NH2	ARG	B2047	5.486	15.654	31.336	1.00	44.50	N
ATOM	1271	C	ARG	B2047	3.460	8.826	30.368	1.00	35.56	C
ATOM	1272	O	ARG	B2047	4.631	8.454	30.354	1.00	34.93	O
ATOM	1273	N	GLN	B2048	2.578	8.388	31.263	1.00	34.21	N
ATOM	1274	CA	GLN	B2048	2.947	7.433	32.305	1.00	32.54	C

ATOM	1275	CB	GLN	B2048	1.866	7.413	33.396	1.00	33.03	C
ATOM	1276	CG	GLN	B2048	2.203	6.564	34.616	1.00	32.53	C
ATOM	1277	CD	GLN	B2048	1.203	6.741	35.751	1.00	33.31	C
ATOM	1278	OE1	GLN	B2048	0.009	6.499	35.586	1.00	32.97	O
ATOM	1279	NE2	GLN	B2048	1.694	7.164	36.914	1.00	33.17	N
ATOM	1280	C	GLN	B2048	3.161	6.021	31.740	1.00	31.47	C
ATOM	1281	O	GLN	B2048	4.119	5.340	32.106	1.00	31.22	O
ATOM	1282	N	ILE	B2049	2.269	5.589	30.852	1.00	29.87	N
ATOM	1283	CA	ILE	B2049	2.366	4.266	30.233	1.00	28.47	C
ATOM	1284	CB	ILE	B2049	1.087	3.936	29.417	1.00	28.92	C
ATOM	1285	CG2	ILE	B2049	1.263	2.627	28.667	1.00	29.21	C
ATOM	1286	CG1	ILE	B2049	-0.130	3.858	30.346	1.00	29.32	C
ATOM	1287	CD1	ILE	B2049	-0.118	2.675	31.305	1.00	28.99	C
ATOM	1288	C	ILE	B2049	3.577	4.191	29.292	1.00	27.84	C
ATOM	1289	O	ILE	B2049	4.172	3.127	29.116	1.00	27.30	O
ATOM	1290	N	GLU	B2050	3.933	5.321	28.688	1.00	26.72	N
ATOM	1291	CA	GLU	B2050	5.073	5.373	27.774	1.00	26.84	C
ATOM	1292	CB	GLU	B2050	5.060	6.692	26.985	1.00	27.77	C
ATOM	1293	CG	GLU	B2050	6.298	6.973	26.119	1.00	30.05	C
ATOM	1294	CD	GLU	B2050	6.456	6.027	24.927	1.00	31.34	C
ATOM	1295	OE1	GLU	B2050	5.443	5.718	24.262	1.00	32.49	O
ATOM	1296	OE2	GLU	B2050	7.603	5.610	24.643	1.00	31.18	O
ATOM	1297	C	GLU	B2050	6.397	5.223	28.520	1.00	25.29	C
ATOM	1298	O	GLU	B2050	7.339	4.621	27.994	1.00	24.70	O
ATOM	1299	N	TYR	B2051	6.471	5.767	29.737	1.00	23.32	N
ATOM	1300	CA	TYR	B2051	7.696	5.675	30.537	1.00	21.39	C
ATOM	1301	CB	TYR	B2051	7.576	6.526	31.821	1.00	21.45	C
ATOM	1302	CG	TYR	B2051	8.819	6.522	32.712	1.00	20.60	C
ATOM	1303	CD1	TYR	B2051	8.974	5.577	33.728	1.00	20.47	C
ATOM	1304	CE1	TYR	B2051	10.128	5.547	34.526	1.00	20.26	C
ATOM	1305	CD2	TYR	B2051	9.852	7.444	32.512	1.00	20.44	C
ATOM	1306	CE2	TYR	B2051	11.012	7.420	33.302	1.00	20.69	C
ATOM	1307	CZ	TYR	B2051	11.141	6.469	34.306	1.00	20.69	C
ATOM	1308	OH	TYR	B2051	12.277	6.449	35.094	1.00	21.32	O
ATOM	1309	C	TYR	B2051	7.978	4.212	30.885	1.00	20.75	C
ATOM	1310	O	TYR	B2051	9.085	3.718	30.658	1.00	19.49	O
ATOM	1311	N	LEU	B2052	6.968	3.520	31.413	1.00	19.18	N
ATOM	1312	CA	LEU	B2052	7.096	2.109	31.788	1.00	18.14	C
ATOM	1313	CB	LEU	B2052	5.782	1.616	32.419	1.00	18.69	C
ATOM	1314	CG	LEU	B2052	5.668	0.154	32.868	1.00	19.58	C
ATOM	1315	CD1	LEU	B2052	6.783	-0.189	33.861	1.00	19.24	C
ATOM	1316	CD2	LEU	B2052	4.299	-0.070	33.511	1.00	20.41	C
ATOM	1317	C	LEU	B2052	7.476	1.209	30.598	1.00	17.54	C
ATOM	1318	O	LEU	B2052	8.347	0.347	30.719	1.00	16.53	O
ATOM	1319	N	ALA	B2053	6.828	1.411	29.453	1.00	16.29	N
ATOM	1320	CA	ALA	B2053	7.115	0.600	28.262	1.00	16.39	C
ATOM	1321	CB	ALA	B2053	6.106	0.926	27.154	1.00	16.13	C
ATOM	1322	C	ALA	B2053	8.550	0.794	27.744	1.00	15.79	C
ATOM	1323	O	ALA	B2053	9.206	-0.169	27.325	1.00	16.28	O
ATOM	1324	N	GLY	B2054	9.034	2.033	27.771	1.00	15.48	N
ATOM	1325	CA	GLY	B2054	10.391	2.311	27.316	1.00	15.32	C
ATOM	1326	C	GLY	B2054	11.471	1.701	28.201	1.00	16.07	C
ATOM	1327	O	GLY	B2054	12.550	1.309	27.716	1.00	14.96	O
ATOM	1328	N	ARG	B2055	11.208	1.633	29.506	1.00	15.22	N
ATOM	1329	CA	ARG	B2055	12.179	1.040	30.430	1.00	16.35	C
ATOM	1330	CB	ARG	B2055	11.790	1.353	31.886	1.00	17.42	C
ATOM	1331	CG	ARG	B2055	12.545	2.543	32.514	1.00	19.58	C

ATOM	1332	CD	ARG	B2055	12.545	3.794	31.623	1.00	21.46	C
ATOM	1333	NE	ARG	B2055	13.423	4.838	32.153	1.00	21.36	N
ATOM	1334	CZ	ARG	B2055	13.695	5.986	31.534	1.00	22.03	C
ATOM	1335	NH1	ARG	B2055	13.155	6.256	30.353	1.00	22.33	N
ATOM	1336	NH2	ARG	B2055	14.520	6.865	32.094	1.00	21.30	N
ATOM	1337	C	ARG	B2055	12.261	-0.479	30.194	1.00	16.15	C
ATOM	1338	O	ARG	B2055	13.339	-1.079	30.277	1.00	15.13	O
ATOM	1339	N	TRP	B2056	11.119	-1.090	29.884	1.00	16.30	N
ATOM	1340	CA	TRP	B2056	11.055	-2.528	29.608	1.00	17.26	C
ATOM	1341	CB	TRP	B2056	9.592	-2.966	29.425	1.00	19.31	C
ATOM	1342	CG	TRP	B2056	9.393	-4.449	29.444	1.00	22.46	C
ATOM	1343	CD2	TRP	B2056	9.458	-5.335	28.325	1.00	24.24	C
ATOM	1344	CE2	TRP	B2056	9.234	-6.644	28.813	1.00	25.47	C
ATOM	1345	CE3	TRP	B2056	9.684	-5.153	26.954	1.00	25.79	C
ATOM	1346	CD1	TRP	B2056	9.139	-5.234	30.540	1.00	23.87	C
ATOM	1347	NE1	TRP	B2056	9.041	-6.552	30.167	1.00	24.64	N
ATOM	1348	CZ2	TRP	B2056	9.231	-7.763	27.979	1.00	26.38	C
ATOM	1349	CZ3	TRP	B2056	9.681	-6.270	26.122	1.00	27.06	C
ATOM	1350	CH2	TRP	B2056	9.455	-7.559	26.641	1.00	27.05	C
ATOM	1351	C	TRP	B2056	11.843	-2.850	28.327	1.00	16.16	C
ATOM	1352	O	TRP	B2056	12.642	-3.794	28.288	1.00	16.26	O
ATOM	1353	N	SER	B2057	11.608	-2.053	27.288	1.00	15.01	N
ATOM	1354	CA	SER	B2057	12.265	-2.208	25.980	1.00	14.82	C
ATOM	1355	CB	SER	B2057	11.678	-1.155	25.017	1.00	15.72	C
ATOM	1356	OG	SER	B2057	12.069	-1.352	23.670	1.00	19.47	O
ATOM	1357	C	SER	B2057	13.807	-2.052	26.087	1.00	14.21	C
ATOM	1358	O	SER	B2057	14.581	-2.816	25.471	1.00	12.39	O
ATOM	1359	N	ALA	B2058	14.246	-1.072	26.873	1.00	12.21	N
ATOM	1360	CA	ALA	B2058	15.680	-0.810	27.052	1.00	12.92	C
ATOM	1361	CB	ALA	B2058	15.878	0.516	27.800	1.00	12.17	C
ATOM	1362	C	ALA	B2058	16.398	-1.949	27.801	1.00	12.59	C
ATOM	1363	O	ALA	B2058	17.507	-2.354	27.428	1.00	11.75	O
ATOM	1364	N	LYS	B2059	15.772	-2.455	28.861	1.00	12.47	N
ATOM	1365	CA	LYS	B2059	16.368	-3.546	29.634	1.00	13.35	C
ATOM	1366	CB	LYS	B2059	15.579	-3.757	30.947	1.00	14.19	C
ATOM	1367	CG	LYS	B2059	15.656	-2.538	31.896	1.00	14.71	C
ATOM	1368	CD	LYS	B2059	14.961	-2.754	33.258	1.00	15.04	C
ATOM	1369	CE	LYS	B2059	15.045	-1.488	34.124	1.00	16.38	C
ATOM	1370	NZ	LYS	B2059	14.590	-1.651	35.545	1.00	15.99	N
ATOM	1371	C	LYS	B2059	16.459	-4.846	28.814	1.00	14.13	C
ATOM	1372	O	LYS	B2059	17.406	-5.632	28.992	1.00	13.94	O
ATOM	1373	N	GLU	B2060	15.500	-5.072	27.907	1.00	13.55	N
ATOM	1374	CA	GLU	B2060	15.535	-6.276	27.066	1.00	14.73	C
ATOM	1375	CB	GLU	B2060	14.160	-6.552	26.436	1.00	16.24	C
ATOM	1376	CG	GLU	B2060	14.173	-7.696	25.413	1.00	20.48	C
ATOM	1377	CD	GLU	B2060	14.283	-9.089	26.037	1.00	23.43	C
ATOM	1378	OE1	GLU	B2060	14.802	-9.230	27.168	1.00	26.30	O
ATOM	1379	OE2	GLU	B2060	13.860	-10.061	25.376	1.00	25.45	O
ATOM	1380	C	GLU	B2060	16.608	-6.174	25.960	1.00	13.95	C
ATOM	1381	O	GLU	B2060	17.238	-7.178	25.609	1.00	13.52	O
ATOM	1382	N	ALA	B2061	16.819	-4.971	25.418	1.00	13.22	N
ATOM	1383	CA	ALA	B2061	17.838	-4.765	24.379	1.00	13.62	C
ATOM	1384	CB	ALA	B2061	17.740	-3.332	23.801	1.00	13.16	C
ATOM	1385	C	ALA	B2061	19.241	-5.022	24.950	1.00	13.67	C
ATOM	1386	O	ALA	B2061	20.107	-5.576	24.257	1.00	14.02	O
ATOM	1387	N	PHE	B2062	19.463	-4.630	26.207	1.00	13.22	N
ATOM	1388	CA	PHE	B2062	20.760	-4.860	26.873	1.00	14.50	C

ATOM	1389	CB	PHE	B2062	20.844	-4.049	28.185	1.00	14.44	C
ATOM	1390	CG	PHE	B2062	22.074	-4.353	29.029	1.00	14.90	C
ATOM	1391	CD1	PHE	B2062	22.084	-5.445	29.908	1.00	15.30	C
ATOM	1392	CD2	PHE	B2062	23.223	-3.571	28.923	1.00	15.56	C
ATOM	1393	CE1	PHE	B2062	23.223	-5.752	30.663	1.00	15.94	C
ATOM	1394	CE2	PHE	B2062	24.375	-3.869	29.678	1.00	15.34	C
ATOM	1395	CZ	PHE	B2062	24.370	-4.961	30.545	1.00	15.50	C
ATOM	1396	C	PHE	B2062	20.969	-6.363	27.147	1.00	14.72	C
ATOM	1397	O	PHE	B2062	22.063	-6.894	26.938	1.00	14.93	O
ATOM	1398	N	SER	B2063	19.922	-7.052	27.599	1.00	14.63	N
ATOM	1399	CA	SER	B2063	20.016	-8.490	27.864	1.00	15.27	C
ATOM	1400	CB	SER	B2063	18.688	-9.021	28.415	1.00	16.20	C
ATOM	1401	OG	SER	B2063	18.406	-8.473	29.694	1.00	18.16	O
ATOM	1402	C	SER	B2063	20.379	-9.257	26.579	1.00	15.62	C
ATOM	1403	O	SER	B2063	21.187	-10.185	26.607	1.00	14.45	O
ATOM	1404	N	LYS	B2064	19.767	-8.872	25.459	1.00	15.61	N
ATOM	1405	CA	LYS	B2064	20.049	-9.514	24.175	1.00	16.52	C
ATOM	1406	CB	LYS	B2064	19.012	-9.077	23.125	1.00	16.00	C
ATOM	1407	CG	LYS	B2064	17.614	-9.664	23.369	1.00	15.31	C
ATOM	1408	CD	LYS	B2064	16.563	-9.149	22.365	1.00	17.09	C
ATOM	1409	CE	LYS	B2064	16.849	-9.635	20.935	1.00	18.35	C
ATOM	1410	NZ	LYS	B2064	15.798	-9.213	19.951	1.00	19.10	N
ATOM	1411	C	LYS	B2064	21.470	-9.195	23.694	1.00	17.20	C
ATOM	1412	O	LYS	B2064	22.113	-10.024	23.043	1.00	17.94	O
ATOM	1413	N	ALA	B2065	21.962	-7.999	24.014	1.00	18.06	N
ATOM	1414	CA	ALA	B2065	23.316	-7.605	23.623	1.00	19.56	C
ATOM	1415	CB	ALA	B2065	23.545	-6.119	23.922	1.00	20.35	C
ATOM	1416	C	ALA	B2065	24.361	-8.453	24.358	1.00	21.22	C
ATOM	1417	O	ALA	B2065	25.473	-8.657	23.859	1.00	20.91	O
ATOM	1418	N	MET	B2066	24.007	-8.940	25.545	1.00	22.79	N
ATOM	1419	CA	MET	B2066	24.924	-9.774	26.331	1.00	25.40	C
ATOM	1420	CB	MET	B2066	24.690	-9.573	27.836	1.00	25.98	C
ATOM	1421	CG	MET	B2066	25.035	-8.178	28.353	1.00	28.04	C
ATOM	1422	SD	MET	B2066	26.596	-8.065	29.288	1.00	31.65	S
ATOM	1423	CE	MET	B2066	26.043	-8.670	30.858	1.00	29.68	C
ATOM	1424	C	MET	B2066	24.761	-11.256	25.983	1.00	26.28	C
ATOM	1425	O	MET	B2066	25.539	-12.095	26.441	1.00	27.12	O
ATOM	1426	N	GLY	B2067	23.743	-11.570	25.184	1.00	26.98	N
ATOM	1427	CA	GLY	B2067	23.501	-12.943	24.772	1.00	28.85	C
ATOM	1428	C	GLY	B2067	22.447	-13.728	25.544	1.00	30.30	C
ATOM	1429	O	GLY	B2067	22.379	-14.950	25.408	1.00	30.22	O
ATOM	1430	N	THR	B2068	21.618	-13.048	26.335	1.00	31.36	N
ATOM	1431	CA	THR	B2068	20.583	-13.729	27.120	1.00	33.00	C
ATOM	1432	CB	THR	B2068	21.043	-13.892	28.595	1.00	32.89	C
ATOM	1433	OG1	THR	B2068	20.057	-14.628	29.332	1.00	33.56	O
ATOM	1434	CG2	THR	B2068	21.253	-12.528	29.248	1.00	32.58	C
ATOM	1435	C	THR	B2068	19.217	-13.023	27.083	1.00	33.93	C
ATOM	1436	O	THR	B2068	18.867	-12.381	26.091	1.00	34.69	O
ATOM	1437	N	GLY	B2069	18.446	-13.157	28.161	1.00	35.37	N
ATOM	1438	CA	GLY	B2069	17.132	-12.534	28.239	1.00	36.59	C
ATOM	1439	C	GLY	B2069	16.890	-11.870	29.586	1.00	37.70	C
ATOM	1440	O	GLY	B2069	17.525	-12.221	30.580	1.00	38.22	O
ATOM	1441	N	ILE	B2070	15.960	-10.918	29.631	1.00	38.74	N
ATOM	1442	CA	ILE	B2070	15.668	-10.195	30.869	1.00	39.48	C
ATOM	1443	CB	ILE	B2070	14.789	-8.948	30.595	1.00	39.69	C
ATOM	1444	CG2	ILE	B2070	13.430	-9.375	30.057	1.00	40.00	C
ATOM	1445	CG1	ILE	B2070	14.621	-8.132	31.880	1.00	39.65	C

ATOM	1446	CD1	ILE	B2070	15.923	-7.652	32.491	1.00	39.07	C
ATOM	1447	C	ILE	B2070	15.008	-11.043	31.960	1.00	40.17	C
ATOM	1448	O	ILE	B2070	15.155	-10.748	33.150	1.00	40.22	O
ATOM	1449	N	SER	B2071	14.283	-12.087	31.564	1.00	40.66	N
ATOM	1450	CA	SER	B2071	13.632	-12.963	32.539	1.00	41.23	C
ATOM	1451	CB	SER	B2071	12.702	-13.965	31.841	1.00	41.77	C
ATOM	1452	OG	SER	B2071	11.623	-13.319	31.185	1.00	43.00	O
ATOM	1453	C	SER	B2071	14.694	-13.729	33.324	1.00	41.05	C
ATOM	1454	O	SER	B2071	14.446	-14.202	34.435	1.00	41.50	O
ATOM	1455	N	LYS	B2072	15.883	-13.838	32.740	1.00	40.66	N
ATOM	1456	CA	LYS	B2072	16.992	-14.554	33.360	1.00	39.81	C
ATOM	1457	CB	LYS	B2072	17.754	-15.336	32.286	1.00	40.65	C
ATOM	1458	CG	LYS	B2072	16.868	-16.186	31.383	1.00	41.38	C
ATOM	1459	CD	LYS	B2072	17.686	-16.871	30.301	1.00	42.22	C
ATOM	1460	CE	LYS	B2072	16.818	-17.749	29.419	1.00	42.85	C
ATOM	1461	NZ	LYS	B2072	15.748	-16.964	28.747	1.00	43.40	N
ATOM	1462	C	LYS	B2072	17.954	-13.620	34.093	1.00	38.99	C
ATOM	1463	O	LYS	B2072	18.445	-13.947	35.174	1.00	38.73	O
ATOM	1464	N	LEU	B2073	18.214	-12.457	33.502	1.00	38.00	N
ATOM	1465	CA	LEU	B2073	19.136	-11.480	34.082	1.00	37.21	C
ATOM	1466	CB	LEU	B2073	19.514	-10.444	33.015	1.00	37.84	C
ATOM	1467	CG	LEU	B2073	20.842	-9.689	33.144	1.00	38.45	C
ATOM	1468	CD1	LEU	B2073	21.202	-9.069	31.801	1.00	38.77	C
ATOM	1469	CD2	LEU	B2073	20.738	-8.625	34.226	1.00	38.87	C
ATOM	1470	C	LEU	B2073	18.583	-10.784	35.338	1.00	36.22	C
ATOM	1471	O	LEU	B2073	19.335	-10.491	36.268	1.00	36.38	O
ATOM	1472	N	GLY	B2074	17.276	-10.527	35.366	1.00	34.86	N
ATOM	1473	CA	GLY	B2074	16.670	-9.874	36.520	1.00	32.86	C
ATOM	1474	C	GLY	B2074	16.457	-8.376	36.351	1.00	31.51	C
ATOM	1475	O	GLY	B2074	17.415	-7.625	36.168	1.00	31.09	O
ATOM	1476	N	PHE	B2075	15.204	-7.934	36.435	1.00	29.86	N
ATOM	1477	CA	PHE	B2075	14.873	-6.516	36.274	1.00	28.90	C
ATOM	1478	CB	PHE	B2075	13.348	-6.309	36.264	1.00	29.85	C
ATOM	1479	CG	PHE	B2075	12.656	-6.885	35.062	1.00	30.57	C
ATOM	1480	CD1	PHE	B2075	12.145	-8.177	35.090	1.00	31.57	C
ATOM	1481	CD2	PHE	B2075	12.502	-6.130	33.905	1.00	31.69	C
ATOM	1482	CE1	PHE	B2075	11.487	-8.714	33.980	1.00	31.82	C
ATOM	1483	CE2	PHE	B2075	11.845	-6.656	32.786	1.00	32.40	C
ATOM	1484	CZ	PHE	B2075	11.336	-7.954	32.828	1.00	32.18	C
ATOM	1485	C	PHE	B2075	15.470	-5.558	37.310	1.00	27.58	C
ATOM	1486	O	PHE	B2075	15.773	-4.409	36.983	1.00	26.85	O
ATOM	1487	N	GLN	B2076	15.626	-6.013	38.551	1.00	26.42	N
ATOM	1488	CA	GLN	B2076	16.161	-5.156	39.612	1.00	26.02	C
ATOM	1489	CB	GLN	B2076	15.829	-5.745	40.995	1.00	26.15	C
ATOM	1490	CG	GLN	B2076	14.332	-5.838	41.292	1.00	25.92	C
ATOM	1491	CD	GLN	B2076	13.641	-4.482	41.284	1.00	26.13	C
ATOM	1492	OE1	GLN	B2076	12.615	-4.300	40.624	1.00	25.80	O
ATOM	1493	NE2	GLN	B2076	14.193	-3.528	42.031	1.00	25.89	N
ATOM	1494	C	GLN	B2076	17.663	-4.892	39.524	1.00	25.52	C
ATOM	1495	O	GLN	B2076	18.195	-4.068	40.276	1.00	25.38	O
ATOM	1496	N	ASP	B2077	18.343	-5.576	38.608	1.00	25.07	N
ATOM	1497	CA	ASP	B2077	19.789	-5.407	38.448	1.00	25.24	C
ATOM	1498	CB	ASP	B2077	20.447	-6.739	38.060	1.00	28.16	C
ATOM	1499	CG	ASP	B2077	20.008	-7.895	38.945	1.00	31.24	C
ATOM	1500	OD1	ASP	B2077	19.868	-7.699	40.172	1.00	32.43	O
ATOM	1501	OD2	ASP	B2077	19.815	-9.009	38.407	1.00	34.01	O
ATOM	1502	C	ASP	B2077	20.164	-4.350	37.402	1.00	23.27	C

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ATOM	1503	O	ASP	B2077	21.347	-4.096	37.173	1.00	23.32	O
ATOM	1504	N	LEU	B2078	19.160	-3.742	36.774	1.00	21.03	N
ATOM	1505	CA	LEU	B2078	19.376	-2.717	35.746	1.00	18.79	C
ATOM	1506	CB	LEU	B2078	18.923	-3.240	34.370	1.00	18.82	C
ATOM	1507	CG	LEU	B2078	19.560	-4.543	33.861	1.00	19.30	C
ATOM	1508	CD1	LEU	B2078	18.877	-5.001	32.575	1.00	19.23	C
ATOM	1509	CD2	LEU	B2078	21.040	-4.325	33.622	1.00	19.43	C
ATOM	1510	C	LEU	B2078	18.582	-1.451	36.081	1.00	18.03	C
ATOM	1511	O	LEU	B2078	17.463	-1.543	36.591	1.00	17.56	O
ATOM	1512	N	GLU	B2079	19.150	-0.276	35.792	1.00	16.76	N
ATOM	1513	CA	GLU	B2079	18.466	0.998	36.060	1.00	15.78	C
ATOM	1514	CB	GLU	B2079	18.912	1.563	37.417	1.00	16.39	C
ATOM	1515	CG	GLU	B2079	18.136	2.809	37.863	1.00	18.61	C
ATOM	1516	CD	GLU	B2079	18.567	3.319	39.237	1.00	19.54	C
ATOM	1517	OE1	GLU	B2079	19.725	3.776	39.376	1.00	18.25	O
ATOM	1518	OE2	GLU	B2079	17.743	3.257	40.180	1.00	20.67	O
ATOM	1519	C	GLU	B2079	18.729	2.029	34.944	1.00	15.93	C
ATOM	1520	O	GLU	B2079	19.884	2.233	34.543	1.00	15.32	O
ATOM	1521	N	VAL	B2080	17.659	2.666	34.452	1.00	15.15	N
ATOM	1522	CA	VAL	B2080	17.735	3.664	33.371	1.00	15.13	C
ATOM	1523	CB	VAL	B2080	16.973	3.169	32.083	1.00	14.90	C
ATOM	1524	CG1	VAL	B2080	17.063	4.228	30.963	1.00	12.93	C
ATOM	1525	CG2	VAL	B2080	17.555	1.844	31.593	1.00	14.67	C
ATOM	1526	C	VAL	B2080	17.120	5.015	33.779	1.00	16.52	C
ATOM	1527	O	VAL	B2080	15.913	5.096	34.046	1.00	16.43	O
ATOM	1528	N	LEU	B2081	17.941	6.069	33.815	1.00	17.23	N
ATOM	1529	CA	LEU	B2081	17.469	7.414	34.178	1.00	18.35	C
ATOM	1530	CB	LEU	B2081	18.248	7.944	35.398	1.00	18.31	C
ATOM	1531	CG	LEU	B2081	18.457	7.034	36.621	1.00	18.74	C
ATOM	1532	CD1	LEU	B2081	19.403	7.722	37.602	1.00	19.49	C
ATOM	1533	CD2	LEU	B2081	17.128	6.720	37.296	1.00	19.00	C
ATOM	1534	C	LEU	B2081	17.657	8.391	33.006	1.00	19.38	C
ATOM	1535	O	LEU	B2081	18.257	8.040	31.984	1.00	18.07	O
ATOM	1536	N	ASN	B2082	17.148	9.616	33.159	1.00	21.21	N
ATOM	1537	CA	ASN	B2082	17.276	10.659	32.125	1.00	23.15	C
ATOM	1538	CB	ASN	B2082	15.898	11.236	31.770	1.00	24.29	C
ATOM	1539	CG	ASN	B2082	15.110	10.351	30.816	1.00	25.10	C
ATOM	1540	OD1	ASN	B2082	15.401	10.292	29.619	1.00	26.00	O
ATOM	1541	ND2	ASN	B2082	14.109	9.657	31.343	1.00	24.28	N
ATOM	1542	C	ASN	B2082	18.171	11.785	32.654	1.00	23.63	C
ATOM	1543	O	ASN	B2082	17.988	12.228	33.785	1.00	24.09	O
ATOM	1544	N	ASN	B2083	19.137	12.260	31.864	1.00	24.20	N
ATOM	1545	CA	ASN	B2083	20.001	13.328	32.376	1.00	25.17	C
ATOM	1546	CB	ASN	B2083	21.395	13.280	31.711	1.00	25.74	C
ATOM	1547	CG	ASN	B2083	21.405	13.770	30.270	1.00	25.64	C
ATOM	1548	OD1	ASN	B2083	22.425	13.652	29.584	1.00	27.52	O
ATOM	1549	ND2	ASN	B2083	20.299	14.327	29.810	1.00	24.85	N
ATOM	1550	C	ASN	B2083	19.356	14.718	32.279	1.00	25.54	C
ATOM	1551	O	ASN	B2083	18.214	14.844	31.831	1.00	25.60	O
ATOM	1552	N	GLU	B2084	20.067	15.759	32.706	1.00	26.28	N
ATOM	1553	CA	GLU	B2084	19.490	17.105	32.688	1.00	27.23	C
ATOM	1554	CB	GLU	B2084	20.378	18.083	33.479	1.00	28.30	C
ATOM	1555	CG	GLU	B2084	21.731	18.411	32.879	1.00	29.51	C
ATOM	1556	CD	GLU	B2084	22.612	19.175	33.860	1.00	31.00	C
ATOM	1557	OE1	GLU	B2084	22.065	19.983	34.645	1.00	31.91	O
ATOM	1558	OE2	GLU	B2084	23.847	18.976	33.847	1.00	30.61	O
ATOM	1559	C	GLU	B2084	19.153	17.675	31.307	1.00	27.45	C

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ATOM	1560	O	GLU B2084	18.514	18.725	31.207	1.00	27.41	O
ATOM	1561	N	ARG B2085	19.569	16.986	30.244	1.00	27.72	N
ATOM	1562	CA	ARG B2085	19.259	17.429	28.885	1.00	27.29	C
ATOM	1563	CB	ARG B2085	20.490	17.355	27.976	1.00	29.07	C
ATOM	1564	CG	ARG B2085	21.545	18.411	28.244	1.00	30.86	C
ATOM	1565	CD	ARG B2085	22.540	18.483	27.089	1.00	33.01	C
ATOM	1566	NE	ARG B2085	23.592	19.471	27.319	1.00	34.52	N
ATOM	1567	CZ	ARG B2085	24.556	19.337	28.221	1.00	34.97	C
ATOM	1568	NH1	ARG B2085	24.608	18.252	28.982	1.00	36.01	N
ATOM	1569	NH2	ARG B2085	25.469	20.285	28.363	1.00	35.52	N
ATOM	1570	C	ARG B2085	18.147	16.563	28.294	1.00	26.76	C
ATOM	1571	O	ARG B2085	17.642	16.838	27.203	1.00	26.29	O
ATOM	1572	N	GLY B2086	17.777	15.508	29.018	1.00	25.36	N
ATOM	1573	CA	GLY B2086	16.721	14.623	28.558	1.00	24.19	C
ATOM	1574	C	GLY B2086	17.156	13.325	27.896	1.00	23.02	C
ATOM	1575	O	GLY B2086	16.305	12.537	27.475	1.00	22.83	O
ATOM	1576	N	ALA B2087	18.462	13.083	27.798	1.00	21.71	N
ATOM	1577	CA	ALA B2087	18.938	11.848	27.172	1.00	20.63	C
ATOM	1578	CB	ALA B2087	20.336	12.055	26.576	1.00	21.15	C
ATOM	1579	C	ALA B2087	18.955	10.671	28.157	1.00	19.81	C
ATOM	1580	O	ALA B2087	19.364	10.824	29.315	1.00	18.56	O
ATOM	1581	N	PRO B2088	18.505	9.479	27.707	1.00	18.87	N
ATOM	1582	CD	PRO B2088	17.864	9.249	26.397	1.00	19.36	C
ATOM	1583	CA	PRO B2088	18.461	8.258	28.530	1.00	17.76	C
ATOM	1584	CB	PRO B2088	17.442	7.390	27.790	1.00	18.59	C
ATOM	1585	CG	PRO B2088	17.719	7.724	26.358	1.00	18.87	C
ATOM	1586	C	PRO B2088	19.831	7.571	28.650	1.00	16.87	C
ATOM	1587	O	PRO B2088	20.593	7.559	27.688	1.00	15.25	O
ATOM	1588	N	TYR B2089	20.130	7.002	29.826	1.00	16.14	N
ATOM	1589	CA	TYR B2089	21.405	6.311	30.078	1.00	16.26	C
ATOM	1590	CB	TYR B2089	22.510	7.344	30.377	1.00	17.32	C
ATOM	1591	CG	TYR B2089	22.461	7.951	31.774	1.00	16.96	C
ATOM	1592	CD1	TYR B2089	23.255	7.445	32.810	1.00	18.32	C
ATOM	1593	CE1	TYR B2089	23.217	8.007	34.098	1.00	18.36	C
ATOM	1594	CD2	TYR B2089	21.625	9.031	32.057	1.00	17.32	C
ATOM	1595	CE2	TYR B2089	21.580	9.595	33.332	1.00	18.67	C
ATOM	1596	CZ	TYR B2089	22.379	9.079	34.347	1.00	18.08	C
ATOM	1597	OH	TYR B2089	22.337	9.654	35.601	1.00	19.43	O
ATOM	1598	C	TYR B2089	21.313	5.311	31.250	1.00	16.51	C
ATOM	1599	O	TYR B2089	20.453	5.455	32.127	1.00	16.59	O
ATOM	1600	N	PHE B2090	22.191	4.304	31.261	1.00	16.46	N
ATOM	1601	CA	PHE B2090	22.207	3.292	32.338	1.00	16.71	C
ATOM	1602	CB	PHE B2090	22.803	1.953	31.855	1.00	15.86	C
ATOM	1603	CG	PHE B2090	21.830	1.069	31.099	1.00	16.44	C
ATOM	1604	CD1	PHE B2090	21.652	1.216	29.724	1.00	16.03	C
ATOM	1605	CD2	PHE B2090	21.089	0.094	31.770	1.00	16.46	C
ATOM	1606	CE1	PHE B2090	20.748	0.407	29.022	1.00	16.54	C
ATOM	1607	CE2	PHE B2090	20.179	-0.723	31.084	1.00	16.80	C
ATOM	1608	CZ	PHE B2090	20.008	-0.568	29.709	1.00	16.46	C
ATOM	1609	C	PHE B2090	23.027	3.748	33.550	1.00	17.25	C
ATOM	1610	O	PHE B2090	24.245	3.938	33.445	1.00	16.58	O
ATOM	1611	N	SER B2091	22.372	3.900	34.700	1.00	16.92	N
ATOM	1612	CA	SER B2091	23.068	4.312	35.922	1.00	18.02	C
ATOM	1613	CB	SER B2091	22.148	5.177	36.802	1.00	18.33	C
ATOM	1614	OG	SER B2091	20.902	4.535	37.052	1.00	17.93	O
ATOM	1615	C	SER B2091	23.592	3.105	36.729	1.00	18.66	C
ATOM	1616	O	SER B2091	24.479	3.255	37.582	1.00	18.83	O

ATOM	1617	N	GLN	B2092	23.048	1.920	36.448	1.00	18.75	N
ATOM	1618	CA	GLN	B2092	23.438	0.675	37.116	1.00	19.69	C
ATOM	1619	CB	GLN	B2092	22.526	0.377	38.313	1.00	21.62	C
ATOM	1620	CG	GLN	B2092	22.726	1.259	39.533	1.00	25.05	C
ATOM	1621	CD	GLN	B2092	21.981	0.730	40.746	1.00	27.87	C
ATOM	1622	OE1	GLN	B2092	20.775	0.944	40.900	1.00	29.82	O
ATOM	1623	NE2	GLN	B2092	22.696	0.018	41.611	1.00	29.02	N
ATOM	1624	C	GLN	B2092	23.336	-0.512	36.151	1.00	19.36	C
ATOM	1625	O	GLN	B2092	22.316	-0.678	35.486	1.00	18.36	O
ATOM	1626	N	ALA	B2093	24.383	-1.336	36.094	1.00	18.90	N
ATOM	1627	CA	ALA	B2093	24.411	-2.514	35.221	1.00	19.53	C
ATOM	1628	CB	ALA	B2093	24.441	-2.073	33.755	1.00	19.53	C
ATOM	1629	C	ALA	B2093	25.625	-3.407	35.524	1.00	20.13	C
ATOM	1630	O	ALA	B2093	26.641	-2.928	36.024	1.00	20.09	O
ATOM	1631	N	PRO	B2094	25.527	-4.720	35.239	1.00	21.00	N
ATOM	1632	CD	PRO	B2094	24.303	-5.472	34.892	1.00	21.48	C
ATOM	1633	CA	PRO	B2094	26.653	-5.631	35.498	1.00	21.95	C
ATOM	1634	CB	PRO	B2094	25.956	-6.963	35.744	1.00	22.34	C
ATOM	1635	CG	PRO	B2094	24.808	-6.905	34.739	1.00	22.42	C
ATOM	1636	C	PRO	B2094	27.613	-5.677	34.300	1.00	22.30	C
ATOM	1637	O	PRO	B2094	27.695	-6.690	33.594	1.00	22.45	O
ATOM	1638	N	PHE	B2095	28.331	-4.572	34.083	1.00	22.56	N
ATOM	1639	CA	PHE	B2095	29.267	-4.435	32.957	1.00	23.11	C
ATOM	1640	CB	PHE	B2095	28.471	-4.089	31.688	1.00	22.75	C
ATOM	1641	CG	PHE	B2095	29.307	-3.979	30.439	1.00	22.31	C
ATOM	1642	CD1	PHE	B2095	29.484	-2.746	29.812	1.00	22.23	C
ATOM	1643	CD2	PHE	B2095	29.898	-5.107	29.876	1.00	22.30	C
ATOM	1644	CE1	PHE	B2095	30.237	-2.639	28.640	1.00	22.73	C
ATOM	1645	CE2	PHE	B2095	30.655	-5.012	28.705	1.00	22.36	C
ATOM	1646	CZ	PHE	B2095	30.825	-3.774	28.085	1.00	21.98	C
ATOM	1647	C	PHE	B2095	30.305	-3.340	33.248	1.00	23.62	C
ATOM	1648	O	PHE	B2095	29.965	-2.284	33.778	1.00	23.96	O
ATOM	1649	N	SER	B2096	31.561	-3.584	32.884	1.00	24.19	N
ATOM	1650	CA	SER	B2096	32.636	-2.623	33.143	1.00	25.11	C
ATOM	1651	CB	SER	B2096	33.927	-3.376	33.477	1.00	26.30	C
ATOM	1652	OG	SER	B2096	33.722	-4.306	34.523	1.00	28.33	O
ATOM	1653	C	SER	B2096	32.954	-1.591	32.050	1.00	24.46	C
ATOM	1654	O	SER	B2096	33.606	-0.583	32.332	1.00	25.13	O
ATOM	1655	N	GLY	B2097	32.513	-1.828	30.818	1.00	23.39	N
ATOM	1656	CA	GLY	B2097	32.818	-0.891	29.739	1.00	21.60	C
ATOM	1657	C	GLY	B2097	31.823	0.242	29.527	1.00	20.27	C
ATOM	1658	O	GLY	B2097	31.138	0.651	30.460	1.00	20.10	O
ATOM	1659	N	LYS	B2098	31.756	0.758	28.299	1.00	19.44	N
ATOM	1660	CA	LYS	B2098	30.822	1.836	27.954	1.00	17.90	C
ATOM	1661	CB	LYS	B2098	31.472	2.822	26.978	1.00	20.19	C
ATOM	1662	CG	LYS	B2098	32.604	3.651	27.561	1.00	21.96	C
ATOM	1663	CD	LYS	B2098	33.055	4.682	26.543	1.00	24.18	C
ATOM	1664	CE	LYS	B2098	34.115	5.612	27.103	1.00	25.70	C
ATOM	1665	NZ	LYS	B2098	34.538	6.626	26.087	1.00	27.22	N
ATOM	1666	C	LYS	B2098	29.561	1.256	27.309	1.00	16.51	C
ATOM	1667	O	LYS	B2098	29.647	0.298	26.543	1.00	14.73	O
ATOM	1668	N	ILE	B2099	28.401	1.844	27.621	1.00	15.59	N
ATOM	1669	CA	ILE	B2099	27.107	1.395	27.086	1.00	15.02	C
ATOM	1670	CB	ILE	B2099	26.144	0.954	28.236	1.00	15.10	C
ATOM	1671	CG2	ILE	B2099	24.823	0.429	27.647	1.00	16.11	C
ATOM	1672	CG1	ILE	B2099	26.790	-0.138	29.095	1.00	15.18	C
ATOM	1673	CD1	ILE	B2099	25.994	-0.462	30.363	1.00	16.41	C

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ATOM	1674	C	ILE	B2099	26.406	2.533	26.308	1.00	14.43	C
ATOM	1675	O	ILE	B2099	26.039	3.551	26.900	1.00	14.51	O
ATOM	1676	N	TRP	B2100	26.207	2.359	25.000	1.00	13.72	N
ATOM	1677	CA	TRP	B2100	25.547	3.381	24.173	1.00	13.62	C
ATOM	1678	CB	TRP	B2100	26.342	3.558	22.864	1.00	13.58	C
ATOM	1679	CG	TRP	B2100	27.817	3.938	23.093	1.00	13.89	C
ATOM	1680	CD2	TRP	B2100	28.334	5.257	23.347	1.00	13.95	C
ATOM	1681	CE2	TRP	B2100	29.726	5.126	23.597	1.00	14.82	C
ATOM	1682	CE3	TRP	B2100	27.755	6.535	23.395	1.00	14.46	C
ATOM	1683	CD1	TRP	B2100	28.890	3.085	23.187	1.00	14.49	C
ATOM	1684	NE1	TRP	B2100	30.041	3.795	23.492	1.00	14.89	N
ATOM	1685	CZ2	TRP	B2100	30.546	6.230	23.895	1.00	15.47	C
ATOM	1686	CZ3	TRP	B2100	28.577	7.640	23.697	1.00	15.28	C
ATOM	1687	CH2	TRP	B2100	29.955	7.472	23.942	1.00	14.88	C
ATOM	1688	C	TRP	B2100	24.071	2.998	23.886	1.00	13.84	C
ATOM	1689	O	TRP	B2100	23.816	1.995	23.214	1.00	13.89	O
ATOM	1690	N	LEU	B2101	23.120	3.808	24.379	1.00	13.08	N
ATOM	1691	CA	LEU	B2101	21.657	3.557	24.239	1.00	12.41	C
ATOM	1692	CB	LEU	B2101	21.059	3.267	25.634	1.00	13.29	C
ATOM	1693	CG	LEU	B2101	19.524	3.353	25.825	1.00	12.98	C
ATOM	1694	CD1	LEU	B2101	18.889	2.043	25.355	1.00	12.28	C
ATOM	1695	CD2	LEU	B2101	19.156	3.601	27.303	1.00	12.42	C
ATOM	1696	C	LEU	B2101	20.796	4.674	23.602	1.00	11.67	C
ATOM	1697	O	LEU	B2101	21.063	5.858	23.811	1.00	11.61	O
ATOM	1698	N	SER	B2102	19.760	4.287	22.844	1.00	11.90	N
ATOM	1699	CA	SER	B2102	18.799	5.237	22.237	1.00	11.37	C
ATOM	1700	CB	SER	B2102	19.212	5.616	20.810	1.00	11.79	C
ATOM	1701	OG	SER	B2102	18.405	6.679	20.308	1.00	9.95	O
ATOM	1702	C	SER	B2102	17.371	4.634	22.219	1.00	11.48	C
ATOM	1703	O	SER	B2102	17.220	3.421	22.026	1.00	11.63	O
ATOM	1704	N	ILE	B2103	16.351	5.482	22.425	1.00	10.47	N
ATOM	1705	CA	ILE	B2103	14.912	5.096	22.465	1.00	10.97	C
ATOM	1706	CB	ILE	B2103	14.337	5.250	23.934	1.00	11.04	C
ATOM	1707	CG2	ILE	B2103	12.852	4.835	23.981	1.00	11.15	C
ATOM	1708	CG1	ILE	B2103	15.136	4.390	24.924	1.00	10.41	C
ATOM	1709	CD1	ILE	B2103	14.781	4.658	26.424	1.00	10.59	C
ATOM	1710	C	ILE	B2103	14.042	5.995	21.536	1.00	11.56	C
ATOM	1711	O	ILE	B2103	14.327	7.184	21.393	1.00	11.36	O
ATOM	1712	N	SER	B2104	12.994	5.435	20.915	1.00	13.13	N
ATOM	1713	CA	SER	B2104	12.073	6.214	20.054	1.00	14.88	C
ATOM	1714	CB	SER	B2104	12.582	6.263	18.603	1.00	15.92	C
ATOM	1715	OG	SER	B2104	11.787	7.132	17.789	1.00	16.21	O
ATOM	1716	C	SER	B2104	10.652	5.617	20.070	1.00	15.87	C
ATOM	1717	O	SER	B2104	10.485	4.418	20.297	1.00	15.32	O
ATOM	1718	N	HIS	B2105	9.623	6.429	19.822	1.00	17.79	N
ATOM	1719	CA	HIS	B2105	8.266	5.872	19.833	1.00	19.31	C
ATOM	1720	CB	HIS	B2105	7.683	5.921	21.249	1.00	21.32	C
ATOM	1721	CG	HIS	B2105	7.405	7.306	21.746	1.00	23.02	C
ATOM	1722	CD2	HIS	B2105	6.279	8.058	21.704	1.00	25.09	C
ATOM	1723	ND1	HIS	B2105	8.363	8.086	22.356	1.00	25.22	N
ATOM	1724	CE1	HIS	B2105	7.841	9.260	22.669	1.00	25.65	C
ATOM	1725	NE2	HIS	B2105	6.577	9.269	22.285	1.00	26.41	N
ATOM	1726	C	HIS	B2105	7.237	6.486	18.870	1.00	20.14	C
ATOM	1727	O	HIS	B2105	7.453	7.560	18.305	1.00	18.58	O
ATOM	1728	N	THR	B2106	6.128	5.763	18.687	1.00	20.92	N
ATOM	1729	CA	THR	B2106	5.008	6.208	17.852	1.00	23.37	C
ATOM	1730	CB	THR	B2106	4.758	5.302	16.612	1.00	23.62	C

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ATOM	1788	N	VAL	B2114	20.967	-0.905	21.636	1.00	10.76	N
ATOM	1789	CA	VAL	B2114	22.157	-0.885	22.526	1.00	11.02	C
ATOM	1790	CB	VAL	B2114	21.912	-1.748	23.810	1.00	10.07	C
ATOM	1791	CG1	VAL	B2114	23.204	-1.874	24.619	1.00	12.63	C
ATOM	1792	CG2	VAL	B2114	20.808	-1.124	24.689	1.00	11.23	C
ATOM	1793	C	VAL	B2114	23.451	-1.438	21.880	1.00	11.08	C
ATOM	1794	O	VAL	B2114	23.408	-2.477	21.204	1.00	10.49	O
ATOM	1795	N	ILE	B2115	24.584	-0.753	22.093	1.00	11.85	N
ATOM	1796	CA	ILE	B2115	25.905	-1.198	21.585	1.00	11.88	C
ATOM	1797	CB	ILE	B2115	26.485	-0.236	20.492	1.00	12.44	C
ATOM	1798	CG2	ILE	B2115	27.841	-0.756	19.999	1.00	12.78	C
ATOM	1799	CG1	ILE	B2115	25.529	-0.134	19.300	1.00	12.56	C
ATOM	1800	CD1	ILE	B2115	25.889	0.986	18.331	1.00	12.68	C
ATOM	1801	C	ILE	B2115	26.883	-1.197	22.782	1.00	12.95	C
ATOM	1802	O	ILE	B2115	26.966	-0.197	23.507	1.00	13.03	O
ATOM	1803	N	LEU	B2116	27.600	-2.306	22.994	1.00	12.77	N
ATOM	1804	CA	LEU	B2116	28.559	-2.432	24.115	1.00	14.04	C
ATOM	1805	CB	LEU	B2116	28.353	-3.785	24.830	1.00	13.62	C
ATOM	1806	CG	LEU	B2116	26.929	-4.093	25.349	1.00	14.05	C
ATOM	1807	CD1	LEU	B2116	26.866	-5.489	25.971	1.00	15.37	C
ATOM	1808	CD2	LEU	B2116	26.520	-3.055	26.384	1.00	14.15	C
ATOM	1809	C	LEU	B2116	30.020	-2.296	23.630	1.00	14.81	C
ATOM	1810	O	LEU	B2116	30.381	-2.839	22.582	1.00	14.52	O
ATOM	1811	N	GLU	B2117	30.858	-1.605	24.409	1.00	16.40	N
ATOM	1812	CA	GLU	B2117	32.255	-1.353	24.027	1.00	18.58	C
ATOM	1813	CB	GLU	B2117	32.344	0.062	23.426	1.00	18.84	C
ATOM	1814	CG	GLU	B2117	33.737	0.570	23.061	1.00	21.74	C
ATOM	1815	CD	GLU	B2117	33.703	1.977	22.450	1.00	23.34	C
ATOM	1816	OE1	GLU	B2117	33.161	2.908	23.098	1.00	22.55	O
ATOM	1817	OE2	GLU	B2117	34.221	2.153	21.322	1.00	24.09	O
ATOM	1818	C	GLU	B2117	33.247	-1.495	25.196	1.00	20.32	C
ATOM	1819	O	GLU	B2117	32.989	-1.010	26.303	1.00	18.78	O
ATOM	1820	N	GLU	B2118	34.384	-2.141	24.931	1.00	22.46	N
ATOM	1821	CA	GLU	B2118	35.413	-2.366	25.949	1.00	26.31	C
ATOM	1822	CB	GLU	B2118	35.364	-3.830	26.415	1.00	28.48	C
ATOM	1823	CG	GLU	B2118	36.185	-4.151	27.657	1.00	31.58	C
ATOM	1824	CD	GLU	B2118	35.479	-3.793	28.952	1.00	33.18	C
ATOM	1825	OE1	GLU	B2118	34.479	-4.464	29.295	1.00	34.62	O
ATOM	1826	OE2	GLU	B2118	35.925	-2.839	29.628	1.00	34.75	O
ATOM	1827	C	GLU	B2118	36.820	-2.039	25.435	1.00	27.70	C
ATOM	1828	O	GLU	B2118	36.958	-1.559	24.285	1.00	28.17	O
ATOM	1829	OXT	GLU	B2118	37.784	-2.267	26.199	1.00	29.81	O
TER	1830		GLU	B2118						
ATOM	1831	CB	MET	C3003	38.407	0.566	12.507	1.00	29.11	C
ATOM	1832	CG	MET	C3003	38.953	-0.372	11.436	1.00	32.10	C
ATOM	1833	SD	MET	C3003	39.971	0.467	10.186	1.00	36.76	S
ATOM	1834	CE	MET	C3003	41.535	0.656	11.078	1.00	35.20	C
ATOM	1835	C	MET	C3003	36.229	-0.625	12.723	1.00	24.49	C
ATOM	1836	O	MET	C3003	36.251	-1.743	12.216	1.00	24.23	O
ATOM	1837	N	MET	C3003	38.104	-1.203	14.236	1.00	26.20	N
ATOM	1838	CA	MET	C3003	37.432	-0.097	13.493	1.00	26.22	C
ATOM	1839	N	ILE	C3004	35.182	0.190	12.648	1.00	22.87	N
ATOM	1840	CA	ILE	C3004	33.960	-0.165	11.933	1.00	21.52	C
ATOM	1841	CB	ILE	C3004	32.800	0.781	12.355	1.00	21.32	C
ATOM	1842	CG2	ILE	C3004	31.535	0.469	11.557	1.00	21.05	C
ATOM	1843	CG1	ILE	C3004	32.547	0.638	13.864	1.00	20.83	C
ATOM	1844	CD1	ILE	C3004	31.537	1.615	14.443	1.00	20.25	C

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ATOM	1845	C	ILE	C3004	34.199	-0.043	10.422	1.00	21.57	C
ATOM	1846	O	ILE	C3004	34.938	0.848	9.979	1.00	21.16	O
ATOM	1847	N	VAL	C3005	33.610	-0.952	9.638	1.00	20.59	N
ATOM	1848	CA	VAL	C3005	33.749	-0.906	8.182	1.00	20.63	C
ATOM	1849	CB	VAL	C3005	34.642	-2.068	7.628	1.00	21.47	C
ATOM	1850	CG1	VAL	C3005	36.083	-1.890	8.090	1.00	21.00	C
ATOM	1851	CG2	VAL	C3005	34.109	-3.413	8.076	1.00	23.00	C
ATOM	1852	C	VAL	C3005	32.413	-0.901	7.422	1.00	19.52	C
ATOM	1853	O	VAL	C3005	32.411	-0.880	6.192	1.00	19.11	O
ATOM	1854	N	GLY	C3006	31.289	-0.906	8.149	1.00	18.23	N
ATOM	1855	CA	GLY	C3006	29.974	-0.880	7.508	1.00	17.17	C
ATOM	1856	C	GLY	C3006	28.797	-0.986	8.482	1.00	16.61	C
ATOM	1857	O	GLY	C3006	28.963	-1.526	9.579	1.00	16.76	O
ATOM	1858	N	HIS	C3007	27.620	-0.477	8.093	1.00	15.51	N
ATOM	1859	CA	HIS	C3007	26.400	-0.531	8.935	1.00	15.40	C
ATOM	1860	CB	HIS	C3007	26.418	0.624	9.953	1.00	15.15	C
ATOM	1861	CG	HIS	C3007	25.191	0.709	10.821	1.00	14.61	C
ATOM	1862	CD2	HIS	C3007	24.430	1.772	11.180	1.00	14.84	C
ATOM	1863	ND1	HIS	C3007	24.668	-0.377	11.493	1.00	15.01	N
ATOM	1864	CE1	HIS	C3007	23.639	0.013	12.229	1.00	15.56	C
ATOM	1865	NE2	HIS	C3007	23.475	1.313	12.058	1.00	15.15	N
ATOM	1866	C	HIS	C3007	25.086	-0.476	8.115	1.00	14.78	C
ATOM	1867	O	HIS	C3007	24.933	0.372	7.228	1.00	14.49	O
ATOM	1868	N	GLY	C3008	24.145	-1.376	8.418	1.00	14.82	N
ATOM	1869	CA	GLY	C3008	22.867	-1.390	7.709	1.00	14.90	C
ATOM	1870	C	GLY	C3008	21.668	-1.918	8.495	1.00	15.74	C
ATOM	1871	O	GLY	C3008	21.835	-2.757	9.391	1.00	14.75	O
ATOM	1872	N	ILE	C3009	20.465	-1.425	8.166	1.00	15.25	N
ATOM	1873	CA	ILE	C3009	19.211	-1.847	8.823	1.00	15.66	C
ATOM	1874	CB	ILE	C3009	18.692	-0.769	9.837	1.00	14.95	C
ATOM	1875	CG2	ILE	C3009	19.789	-0.421	10.873	1.00	15.05	C
ATOM	1876	CG1	ILE	C3009	18.261	0.492	9.079	1.00	14.33	C
ATOM	1877	CD1	ILE	C3009	17.632	1.555	9.956	1.00	14.63	C
ATOM	1878	C	ILE	C3009	18.090	-2.102	7.780	1.00	16.20	C
ATOM	1879	O	ILE	C3009	18.221	-1.696	6.619	1.00	16.14	O
ATOM	1880	N	ASP	C3010	17.004	-2.762	8.204	1.00	16.80	N
ATOM	1881	CA	ASP	C3010	15.853	-3.080	7.330	1.00	17.32	C
ATOM	1882	CB	ASP	C3010	16.130	-4.365	6.527	1.00	18.68	C
ATOM	1883	CG	ASP	C3010	14.977	-4.741	5.579	1.00	18.99	C
ATOM	1884	OD1	ASP	C3010	14.852	-4.105	4.518	1.00	19.45	O
ATOM	1885	OD2	ASP	C3010	14.193	-5.667	5.896	1.00	19.42	O
ATOM	1886	C	ASP	C3010	14.549	-3.290	8.120	1.00	18.11	C
ATOM	1887	O	ASP	C3010	14.580	-3.711	9.283	1.00	17.23	O
ATOM	1888	N	ILE	C3011	13.411	-2.978	7.488	1.00	17.97	N
ATOM	1889	CA	ILE	C3011	12.082	-3.191	8.081	1.00	18.54	C
ATOM	1890	CB	ILE	C3011	11.444	-1.876	8.656	1.00	18.66	C
ATOM	1891	CG2	ILE	C3011	11.363	-0.776	7.579	1.00	19.04	C
ATOM	1892	CG1	ILE	C3011	10.048	-2.185	9.211	1.00	19.19	C
ATOM	1893	CD1	ILE	C3011	9.421	-1.049	9.999	1.00	19.08	C
ATOM	1894	C	ILE	C3011	11.207	-3.762	6.950	1.00	18.75	C
ATOM	1895	O	ILE	C3011	11.286	-3.288	5.825	1.00	18.39	O
ATOM	1896	N	GLU	C3012	10.389	-4.774	7.253	1.00	19.66	N
ATOM	1897	CA	GLU	C3012	9.544	-5.433	6.246	1.00	20.80	C
ATOM	1898	CB	GLU	C3012	10.290	-6.663	5.706	1.00	22.15	C
ATOM	1899	CG	GLU	C3012	9.468	-7.566	4.774	1.00	23.49	C
ATOM	1900	CD	GLU	C3012	9.692	-7.274	3.300	1.00	24.70	C
ATOM	1901	OE1	GLU	C3012	10.294	-6.228	2.973	1.00	24.77	O

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ATOM	1902	OE2	GLU	C3012	9.258	-8.095	2.460	1.00	25.50	O
ATOM	1903	C	GLU	C3012	8.160	-5.870	6.759	1.00	21.36	C
ATOM	1904	O	GLU	C3012	8.049	-6.431	7.848	1.00	20.37	O
ATOM	1905	N	GLU	C3013	7.111	-5.614	5.971	1.00	22.03	N
ATOM	1906	CA	GLU	C3013	5.743	-6.004	6.345	1.00	23.43	C
ATOM	1907	CB	GLU	C3013	4.703	-5.207	5.534	1.00	24.60	C
ATOM	1908	CG	GLU	C3013	4.706	-3.683	5.716	1.00	26.52	C
ATOM	1909	CD	GLU	C3013	4.063	-3.212	7.018	1.00	28.49	C
ATOM	1910	OE1	GLU	C3013	3.071	-3.834	7.467	1.00	28.55	O
ATOM	1911	OE2	GLU	C3013	4.533	-2.192	7.579	1.00	28.72	O
ATOM	1912	C	GLU	C3013	5.517	-7.501	6.075	1.00	23.35	C
ATOM	1913	O	GLU	C3013	5.931	-8.012	5.032	1.00	23.44	O
ATOM	1914	N	LEU	C3014	4.855	-8.198	7.000	1.00	23.78	N
ATOM	1915	CA	LEU	C3014	4.578	-9.627	6.818	1.00	24.31	C
ATOM	1916	CB	LEU	C3014	3.922	-10.227	8.071	1.00	24.95	C
ATOM	1917	CG	LEU	C3014	4.664	-10.149	9.417	1.00	27.00	C
ATOM	1918	CD1	LEU	C3014	3.957	-11.044	10.423	1.00	27.46	C
ATOM	1919	CD2	LEU	C3014	6.118	-10.589	9.258	1.00	26.69	C
ATOM	1920	C	LEU	C3014	3.660	-9.867	5.608	1.00	24.29	C
ATOM	1921	O	LEU	C3014	3.680	-10.939	5.004	1.00	23.68	O
ATOM	1922	N	ALA	C3015	2.857	-8.868	5.262	1.00	24.50	N
ATOM	1923	CA	ALA	C3015	1.946	-8.984	4.120	1.00	24.91	C
ATOM	1924	CB	ALA	C3015	1.082	-7.732	4.016	1.00	25.04	C
ATOM	1925	C	ALA	C3015	2.691	-9.220	2.803	1.00	25.57	C
ATOM	1926	O	ALA	C3015	2.215	-9.962	1.940	1.00	25.88	O
ATOM	1927	N	SER	C3016	3.857	-8.592	2.648	1.00	25.61	N
ATOM	1928	CA	SER	C3016	4.658	-8.737	1.432	1.00	25.91	C
ATOM	1929	CB	SER	C3016	5.829	-7.742	1.441	1.00	26.86	C
ATOM	1930	OG	SER	C3016	5.385	-6.401	1.589	1.00	27.09	O
ATOM	1931	C	SER	C3016	5.204	-10.159	1.275	1.00	26.38	C
ATOM	1932	O	SER	C3016	5.276	-10.690	0.161	1.00	25.43	O
ATOM	1933	N	ILE	C3017	5.603	-10.768	2.390	1.00	26.46	N
ATOM	1934	CA	ILE	C3017	6.128	-12.131	2.365	1.00	26.86	C
ATOM	1935	CB	ILE	C3017	6.839	-12.474	3.706	1.00	26.57	C
ATOM	1936	CG2	ILE	C3017	7.306	-13.925	3.709	1.00	26.15	C
ATOM	1937	CG1	ILE	C3017	8.029	-11.526	3.923	1.00	26.30	C
ATOM	1938	CD1	ILE	C3017	9.102	-11.612	2.842	1.00	26.29	C
ATOM	1939	C	ILE	C3017	4.986	-13.129	2.121	1.00	28.01	C
ATOM	1940	O	ILE	C3017	5.160	-14.133	1.426	1.00	27.90	O
ATOM	1941	N	GLU	C3018	3.816	-12.837	2.679	1.00	28.89	N
ATOM	1942	CA	GLU	C3018	2.657	-13.713	2.530	1.00	30.68	C
ATOM	1943	CB	GLU	C3018	1.527	-13.250	3.456	1.00	31.08	C
ATOM	1944	CG	GLU	C3018	1.936	-13.180	4.919	1.00	32.50	C
ATOM	1945	CD	GLU	C3018	0.853	-12.614	5.817	1.00	33.07	C
ATOM	1946	OE1	GLU	C3018	0.161	-11.663	5.395	1.00	33.76	O
ATOM	1947	OE2	GLU	C3018	0.704	-13.108	6.955	1.00	33.50	O
ATOM	1948	C	GLU	C3018	2.144	-13.796	1.092	1.00	31.38	C
ATOM	1949	O	GLU	C3018	1.736	-14.868	0.639	1.00	31.29	O
ATOM	1950	N	SER	C3019	2.166	-12.677	0.372	1.00	32.24	N
ATOM	1951	CA	SER	C3019	1.691	-12.676	-1.008	1.00	33.36	C
ATOM	1952	CB	SER	C3019	1.420	-11.240	-1.494	1.00	33.64	C
ATOM	1953	OG	SER	C3019	2.610	-10.547	-1.838	1.00	34.47	O
ATOM	1954	C	SER	C3019	2.706	-13.364	-1.918	1.00	34.14	C
ATOM	1955	O	SER	C3019	2.331	-14.055	-2.864	1.00	34.07	O
ATOM	1956	N	ALA	C3020	3.989	-13.191	-1.611	1.00	34.65	N
ATOM	1957	CA	ALA	C3020	5.061	-13.791	-2.399	1.00	35.89	C
ATOM	1958	CB	ALA	C3020	6.415	-13.247	-1.938	1.00	35.73	C

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ATOM	1959	C	ALA	C3020	5.071	-15.322	-2.347	1.00	36.89	C
ATOM	1960	O	ALA	C3020	5.451	-15.978	-3.317	1.00	36.66	O
ATOM	1961	N	VAL	C3021	4.663	-15.891	-1.217	1.00	38.20	N
ATOM	1962	CA	VAL	C3021	4.640	-17.343	-1.078	1.00	40.04	C
ATOM	1963	CB	VAL	C3021	4.270	-17.770	0.362	1.00	40.00	C
ATOM	1964	CG1	VAL	C3021	4.180	-19.285	0.445	1.00	40.22	C
ATOM	1965	CG2	VAL	C3021	5.310	-17.255	1.347	1.00	40.17	C
ATOM	1966	C	VAL	C3021	3.636	-17.969	-2.043	1.00	41.37	C
ATOM	1967	O	VAL	C3021	3.939	-18.954	-2.718	1.00	41.44	O
ATOM	1968	N	THR	C3022	2.443	-17.387	-2.105	1.00	42.72	N
ATOM	1969	CA	THR	C3022	1.382	-17.883	-2.974	1.00	44.38	C
ATOM	1970	CB	THR	C3022	0.049	-17.160	-2.683	1.00	43.84	C
ATOM	1971	OG1	THR	C3022	-0.341	-17.403	-1.326	1.00	43.59	O
ATOM	1972	CG2	THR	C3022	-1.048	-17.665	-3.612	1.00	43.81	C
ATOM	1973	C	THR	C3022	1.703	-17.738	-4.461	1.00	45.84	C
ATOM	1974	O	THR	C3022	1.725	-18.730	-5.193	1.00	45.92	O
ATOM	1975	N	ARG	C3023	1.951	-16.508	-4.906	1.00	47.48	N
ATOM	1976	CA	ARG	C3023	2.250	-16.253	-6.313	1.00	49.27	C
ATOM	1977	CB	ARG	C3023	2.771	-14.823	-6.502	1.00	49.46	C
ATOM	1978	CG	ARG	C3023	2.801	-14.390	-7.958	1.00	49.98	C
ATOM	1979	CD	ARG	C3023	2.939	-12.884	-8.125	1.00	50.04	C
ATOM	1980	NE	ARG	C3023	4.288	-12.399	-7.854	0.05	50.32	N
ATOM	1981	CZ	ARG	C3023	4.694	-11.158	-8.105	0.05	50.40	C
ATOM	1982	NH1	ARG	C3023	3.853	-10.279	-8.634	0.05	50.48	N
ATOM	1983	NH2	ARG	C3023	5.940	-10.797	-7.833	0.05	50.49	N
ATOM	1984	C	ARG	C3023	3.260	-17.259	-6.861	1.00	50.29	C
ATOM	1985	O	ARG	C3023	2.889	-18.186	-7.580	1.00	50.77	O
ATOM	1986	N	HIS	C3024	4.532	-17.074	-6.526	1.00	51.47	N
ATOM	1987	CA	HIS	C3024	5.581	-17.988	-6.970	1.00	52.39	C
ATOM	1988	CB	HIS	C3024	6.822	-17.207	-7.410	0.05	52.53	C
ATOM	1989	CG	HIS	C3024	7.108	-17.304	-8.876	0.05	52.72	C
ATOM	1990	CD2	HIS	C3024	7.177	-16.353	-9.838	0.05	52.78	C
ATOM	1991	ND1	HIS	C3024	7.367	-18.503	-9.505	0.05	52.78	N
ATOM	1992	CE1	HIS	C3024	7.583	-18.287	-10.790	0.05	52.83	C
ATOM	1993	NE2	HIS	C3024	7.474	-16.990	-11.018	0.05	52.83	N
ATOM	1994	C	HIS	C3024	5.931	-18.911	-5.806	1.00	53.02	C
ATOM	1995	O	HIS	C3024	6.822	-18.613	-5.013	1.00	52.97	O
ATOM	1996	N	GLU	C3025	5.222	-20.032	-5.712	1.00	53.71	N
ATOM	1997	CA	GLU	C3025	5.430	-20.992	-4.632	1.00	54.23	C
ATOM	1998	CB	GLU	C3025	4.308	-22.035	-4.647	1.00	55.24	C
ATOM	1999	CG	GLU	C3025	4.150	-22.772	-5.965	1.00	56.63	C
ATOM	2000	CD	GLU	C3025	2.869	-23.585	-6.024	1.00	57.48	C
ATOM	2001	OE1	GLU	C3025	2.657	-24.435	-5.131	1.00	58.10	O
ATOM	2002	OE2	GLU	C3025	2.075	-23.372	-6.966	1.00	57.87	O
ATOM	2003	C	GLU	C3025	6.796	-21.684	-4.626	1.00	53.75	C
ATOM	2004	O	GLU	C3025	6.916	-22.841	-4.227	1.00	53.95	O
ATOM	2005	N	GLY	C3026	7.820	-20.961	-5.068	1.00	53.15	N
ATOM	2006	CA	GLY	C3026	9.171	-21.492	-5.080	1.00	51.80	C
ATOM	2007	C	GLY	C3026	10.057	-20.503	-4.340	1.00	50.97	C
ATOM	2008	O	GLY	C3026	11.260	-20.712	-4.167	1.00	50.85	O
ATOM	2009	N	PHE	C3027	9.426	-19.418	-3.899	1.00	49.86	N
ATOM	2010	CA	PHE	C3027	10.077	-18.331	-3.173	1.00	48.78	C
ATOM	2011	CB	PHE	C3027	9.001	-17.419	-2.570	1.00	48.81	C
ATOM	2012	CG	PHE	C3027	9.546	-16.198	-1.884	1.00	48.66	C
ATOM	2013	CD1	PHE	C3027	10.279	-15.252	-2.593	1.00	48.61	C
ATOM	2014	CD2	PHE	C3027	9.313	-15.986	-0.527	1.00	48.69	C
ATOM	2015	CE1	PHE	C3027	10.772	-14.111	-1.962	1.00	48.58	C

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ATOM	2016	CE2	PHE	C3027	9.802	-14.849	0.113	1.00	48.35	C
ATOM	2017	CZ	PHE	C3027	10.533	-13.910	-0.606	1.00	48.38	C
ATOM	2018	C	PHE	C3027	11.037	-18.795	-2.076	1.00	47.88	C
ATOM	2019	O	PHE	C3027	12.188	-18.364	-2.027	1.00	47.77	O
ATOM	2020	N	ALA	C3028	10.558	-19.676	-1.205	1.00	47.03	N
ATOM	2021	CA	ALA	C3028	11.362	-20.186	-0.097	1.00	46.36	C
ATOM	2022	CB	ALA	C3028	10.529	-21.147	0.741	1.00	46.30	C
ATOM	2023	C	ALA	C3028	12.668	-20.862	-0.519	1.00	45.98	C
ATOM	2024	O	ALA	C3028	13.735	-20.562	0.026	1.00	46.02	O
ATOM	2025	N	LYS	C3029	12.585	-21.774	-1.483	1.00	44.97	N
ATOM	2026	CA	LYS	C3029	13.762	-22.497	-1.952	1.00	44.02	C
ATOM	2027	CB	LYS	C3029	13.377	-23.478	-3.065	1.00	44.26	C
ATOM	2028	CG	LYS	C3029	12.440	-24.589	-2.621	0.05	44.27	C
ATOM	2029	CD	LYS	C3029	12.186	-25.576	-3.749	0.05	44.38	C
ATOM	2030	CE	LYS	C3029	11.290	-26.717	-3.296	0.05	44.42	C
ATOM	2031	NZ	LYS	C3029	11.066	-27.712	-4.380	0.05	44.48	N
ATOM	2032	C	LYS	C3029	14.878	-21.586	-2.444	1.00	43.30	C
ATOM	2033	O	LYS	C3029	16.055	-21.926	-2.330	1.00	43.66	O
ATOM	2034	N	ARG	C3030	14.516	-20.429	-2.988	1.00	42.33	N
ATOM	2035	CA	ARG	C3030	15.515	-19.498	-3.495	1.00	41.38	C
ATOM	2036	CB	ARG	C3030	14.933	-18.685	-4.655	1.00	41.73	C
ATOM	2037	CG	ARG	C3030	14.577	-19.527	-5.870	0.05	41.77	C
ATOM	2038	CD	ARG	C3030	14.062	-18.672	-7.016	0.05	41.90	C
ATOM	2039	NE	ARG	C3030	13.773	-19.474	-8.202	0.05	42.00	N
ATOM	2040	CZ	ARG	C3030	13.329	-18.977	-9.351	0.05	42.04	C
ATOM	2041	NH1	ARG	C3030	13.092	-19.784	-10.377	0.05	42.08	N
ATOM	2042	NH2	ARG	C3030	13.119	-17.674	-9.476	0.05	42.08	N
ATOM	2043	C	ARG	C3030	16.073	-18.551	-2.435	1.00	40.66	C
ATOM	2044	O	ARG	C3030	17.141	-17.969	-2.620	1.00	40.56	O
ATOM	2045	N	VAL	C3031	15.357	-18.402	-1.324	1.00	39.61	N
ATOM	2046	CA	VAL	C3031	15.797	-17.509	-0.252	1.00	38.51	C
ATOM	2047	CB	VAL	C3031	14.593	-16.737	0.354	1.00	38.68	C
ATOM	2048	CG1	VAL	C3031	15.046	-15.899	1.545	1.00	39.01	C
ATOM	2049	CG2	VAL	C3031	13.964	-15.843	-0.703	1.00	39.32	C
ATOM	2050	C	VAL	C3031	16.535	-18.222	0.887	1.00	37.22	C
ATOM	2051	O	VAL	C3031	17.392	-17.625	1.540	1.00	36.96	O
ATOM	2052	N	LEU	C3032	16.215	-19.494	1.109	1.00	35.97	N
ATOM	2053	CA	LEU	C3032	16.825	-20.268	2.194	1.00	35.20	C
ATOM	2054	CB	LEU	C3032	15.713	-20.865	3.062	1.00	34.43	C
ATOM	2055	CG	LEU	C3032	14.682	-19.887	3.635	1.00	34.07	C
ATOM	2056	CD1	LEU	C3032	13.508	-20.658	4.224	1.00	34.12	C
ATOM	2057	CD2	LEU	C3032	15.340	-19.010	4.694	1.00	33.54	C
ATOM	2058	C	LEU	C3032	17.774	-21.395	1.756	1.00	35.04	C
ATOM	2059	O	LEU	C3032	17.592	-21.997	0.696	1.00	34.60	O
ATOM	2060	N	THR	C3033	18.780	-21.679	2.584	1.00	34.45	N
ATOM	2061	CA	THR	C3033	19.729	-22.755	2.293	1.00	34.22	C
ATOM	2062	CB	THR	C3033	21.050	-22.619	3.096	1.00	33.96	C
ATOM	2063	OG1	THR	C3033	20.797	-22.889	4.481	1.00	33.02	O
ATOM	2064	CG2	THR	C3033	21.630	-21.222	2.953	1.00	34.21	C
ATOM	2065	C	THR	C3033	19.063	-24.063	2.720	1.00	34.16	C
ATOM	2066	O	THR	C3033	17.968	-24.052	3.279	1.00	33.78	O
ATOM	2067	N	ALA	C3034	19.729	-25.185	2.472	1.00	34.40	N
ATOM	2068	CA	ALA	C3034	19.178	-26.487	2.839	1.00	34.48	C
ATOM	2069	CB	ALA	C3034	20.103	-27.598	2.350	1.00	34.65	C
ATOM	2070	C	ALA	C3034	18.927	-26.638	4.341	1.00	34.51	C
ATOM	2071	O	ALA	C3034	17.867	-27.117	4.751	1.00	34.56	O
ATOM	2072	N	LEU	C3035	19.895	-26.233	5.162	1.00	34.52	N

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ATOM	2073	CA	LEU	C3035	19.755	-26.345	6.612	1.00	34.61	C
ATOM	2074	CB	LEU	C3035	21.087	-26.047	7.308	1.00	34.52	C
ATOM	2075	CG	LEU	C3035	21.101	-26.182	8.834	0.05	34.52	C
ATOM	2076	CD1	LEU	C3035	20.741	-27.607	9.228	0.05	34.51	C
ATOM	2077	CD2	LEU	C3035	22.475	-25.814	9.369	0.05	34.53	C
ATOM	2078	C	LEU	C3035	18.675	-25.414	7.156	1.00	35.00	C
ATOM	2079	O	LEU	C3035	17.965	-25.769	8.098	1.00	35.04	O
ATOM	2080	N	GLU	C3036	18.558	-24.222	6.574	1.00	35.33	N
ATOM	2081	CA	GLU	C3036	17.537	-23.263	7.004	1.00	35.62	C
ATOM	2082	CB	GLU	C3036	17.741	-21.907	6.310	1.00	34.70	C
ATOM	2083	CG	GLU	C3036	18.809	-21.006	6.941	1.00	33.21	C
ATOM	2084	CD	GLU	C3036	19.117	-19.767	6.103	1.00	32.82	C
ATOM	2085	OE1	GLU	C3036	19.598	-18.759	6.671	1.00	31.24	O
ATOM	2086	OE2	GLU	C3036	18.893	-19.803	4.873	1.00	32.21	O
ATOM	2087	C	GLU	C3036	16.155	-23.815	6.654	1.00	36.75	C
ATOM	2088	O	GLU	C3036	15.205	-23.687	7.427	1.00	36.40	O
ATOM	2089	N	MET	C3037	16.064	-24.436	5.481	1.00	38.24	N
ATOM	2090	CA	MET	C3037	14.821	-25.018	4.981	1.00	40.09	C
ATOM	2091	CB	MET	C3037	15.064	-25.625	3.596	1.00	41.14	C
ATOM	2092	CG	MET	C3037	13.808	-26.028	2.834	1.00	43.15	C
ATOM	2093	SD	MET	C3037	12.851	-24.618	2.239	1.00	45.06	S
ATOM	2094	CE	MET	C3037	11.189	-25.242	2.400	1.00	44.92	C
ATOM	2095	C	MET	C3037	14.270	-26.089	5.926	1.00	40.63	C
ATOM	2096	O	MET	C3037	13.061	-26.171	6.151	1.00	40.94	O
ATOM	2097	N	GLU	C3038	15.159	-26.911	6.473	1.00	41.23	N
ATOM	2098	CA	GLU	C3038	14.752	-27.969	7.393	1.00	41.49	C
ATOM	2099	CB	GLU	C3038	15.982	-28.713	7.924	1.00	41.61	C
ATOM	2100	CG	GLU	C3038	16.711	-29.544	6.878	0.05	41.50	C
ATOM	2101	CD	GLU	C3038	15.889	-30.721	6.385	0.05	41.51	C
ATOM	2102	OE1	GLU	C3038	16.376	-31.459	5.503	0.05	41.48	O
ATOM	2103	OE2	GLU	C3038	14.758	-30.911	6.880	0.05	41.45	O
ATOM	2104	C	GLU	C3038	13.958	-27.391	8.559	1.00	41.78	C
ATOM	2105	O	GLU	C3038	12.984	-27.989	9.013	1.00	41.81	O
ATOM	2106	N	ARG	C3039	14.384	-26.226	9.037	1.00	42.11	N
ATOM	2107	CA	ARG	C3039	13.716	-25.550	10.146	1.00	42.69	C
ATOM	2108	CB	ARG	C3039	14.580	-24.380	10.634	1.00	43.67	C
ATOM	2109	CG	ARG	C3039	13.950	-23.514	11.722	1.00	45.06	C
ATOM	2110	CD	ARG	C3039	13.752	-24.276	13.026	1.00	46.69	C
ATOM	2111	NE	ARG	C3039	13.295	-23.394	14.099	1.00	47.90	N
ATOM	2112	CZ	ARG	C3039	12.966	-23.803	15.321	1.00	48.72	C
ATOM	2113	NH1	ARG	C3039	13.040	-25.089	15.637	1.00	49.17	N
ATOM	2114	NH2	ARG	C3039	12.563	-22.925	16.230	1.00	49.02	N
ATOM	2115	C	ARG	C3039	12.343	-25.034	9.714	1.00	42.44	C
ATOM	2116	O	ARG	C3039	11.360	-25.153	10.448	1.00	42.21	O
ATOM	2117	N	PHE	C3040	12.293	-24.467	8.512	1.00	42.44	N
ATOM	2118	CA	PHE	C3040	11.064	-23.909	7.948	1.00	42.58	C
ATOM	2119	CB	PHE	C3040	11.343	-23.394	6.529	1.00	41.84	C
ATOM	2120	CG	PHE	C3040	10.165	-22.713	5.879	1.00	41.26	C
ATOM	2121	CD1	PHE	C3040	9.621	-21.556	6.428	1.00	40.76	C
ATOM	2122	CD2	PHE	C3040	9.610	-23.223	4.708	1.00	40.96	C
ATOM	2123	CE1	PHE	C3040	8.541	-20.915	5.821	1.00	40.74	C
ATOM	2124	CE2	PHE	C3040	8.527	-22.590	4.090	1.00	40.92	C
ATOM	2125	CZ	PHE	C3040	7.992	-21.433	4.649	1.00	40.88	C
ATOM	2126	C	PHE	C3040	9.899	-24.902	7.913	1.00	43.12	C
ATOM	2127	O	PHE	C3040	8.790	-24.585	8.343	1.00	42.92	O
ATOM	2128	N	THR	C3041	10.156	-26.104	7.406	1.00	43.77	N
ATOM	2129	CA	THR	C3041	9.119	-27.126	7.303	1.00	44.43	C

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ATOM	2130	CB	THR	C3041	9.569	-28.283	6.395	1.00	44.80	C
ATOM	2131	OG1	THR	C3041	10.703	-28.936	6.978	1.00	45.05	O
ATOM	2132	CG2	THR	C3041	9.935	-27.759	5.016	1.00	45.00	C
ATOM	2133	C	THR	C3041	8.676	-27.719	8.635	1.00	44.57	C
ATOM	2134	O	THR	C3041	7.611	-28.327	8.721	1.00	44.92	O
ATOM	2135	N	SER	C3042	9.488	-27.548	9.672	1.00	44.91	N
ATOM	2136	CA	SER	C3042	9.160	-28.091	10.986	1.00	44.98	C
ATOM	2137	CB	SER	C3042	10.439	-28.297	11.801	1.00	45.18	C
ATOM	2138	OG	SER	C3042	11.336	-29.151	11.110	1.00	45.91	O
ATOM	2139	C	SER	C3042	8.194	-27.212	11.770	1.00	44.99	C
ATOM	2140	O	SER	C3042	7.536	-27.683	12.699	1.00	45.11	O
ATOM	2141	N	LEU	C3043	8.112	-25.938	11.397	1.00	44.68	N
ATOM	2142	CA	LEU	C3043	7.228	-24.993	12.073	1.00	44.47	C
ATOM	2143	CB	LEU	C3043	7.882	-23.608	12.124	1.00	44.33	C
ATOM	2144	CG	LEU	C3043	9.250	-23.485	12.797	1.00	44.21	C
ATOM	2145	CD1	LEU	C3043	9.761	-22.052	12.662	1.00	44.22	C
ATOM	2146	CD2	LEU	C3043	9.139	-23.875	14.265	1.00	44.47	C
ATOM	2147	C	LEU	C3043	5.888	-24.899	11.347	1.00	44.31	C
ATOM	2148	O	LEU	C3043	5.738	-25.422	10.240	1.00	44.09	O
ATOM	2149	N	LYS	C3044	4.923	-24.221	11.965	1.00	44.27	N
ATOM	2150	CA	LYS	C3044	3.601	-24.064	11.365	1.00	44.15	C
ATOM	2151	CB	LYS	C3044	2.703	-25.234	11.777	1.00	45.11	C
ATOM	2152	CG	LYS	C3044	1.429	-25.375	10.953	1.00	46.10	C
ATOM	2153	CD	LYS	C3044	0.462	-26.398	11.547	1.00	47.10	C
ATOM	2154	CE	LYS	C3044	1.099	-27.774	11.701	1.00	47.88	C
ATOM	2155	NZ	LYS	C3044	2.155	-27.802	12.758	1.00	48.36	N
ATOM	2156	C	LYS	C3044	2.924	-22.745	11.753	1.00	43.58	C
ATOM	2157	O	LYS	C3044	3.349	-22.062	12.687	1.00	43.58	O
ATOM	2158	N	GLY	C3045	1.868	-22.397	11.022	1.00	42.72	N
ATOM	2159	CA	GLY	C3045	1.129	-21.177	11.299	1.00	41.65	C
ATOM	2160	C	GLY	C3045	1.932	-19.893	11.197	1.00	40.64	C
ATOM	2161	O	GLY	C3045	2.788	-19.749	10.323	1.00	40.57	O
ATOM	2162	N	ARG	C3046	1.644	-18.956	12.097	1.00	39.78	N
ATOM	2163	CA	ARG	C3046	2.327	-17.666	12.129	1.00	38.64	C
ATOM	2164	CB	ARG	C3046	1.752	-16.792	13.249	1.00	38.93	C
ATOM	2165	CG	ARG	C3046	2.393	-15.415	13.350	0.05	38.89	C
ATOM	2166	CD	ARG	C3046	1.769	-14.591	14.465	0.05	38.99	C
ATOM	2167	NE	ARG	C3046	0.346	-14.352	14.241	0.05	39.04	N
ATOM	2168	CZ	ARG	C3046	-0.428	-13.636	15.050	0.05	39.08	C
ATOM	2169	NH1	ARG	C3046	-1.713	-13.471	14.768	0.05	39.09	N
ATOM	2170	NH2	ARG	C3046	0.084	-13.084	16.142	0.05	39.12	N
ATOM	2171	C	ARG	C3046	3.826	-17.840	12.338	1.00	37.81	C
ATOM	2172	O	ARG	C3046	4.629	-17.130	11.735	1.00	37.34	O
ATOM	2173	N	ARG	C3047	4.195	-18.785	13.198	1.00	36.94	N
ATOM	2174	CA	ARG	C3047	5.601	-19.056	13.485	1.00	35.80	C
ATOM	2175	CB	ARG	C3047	5.727	-20.255	14.424	1.00	37.34	C
ATOM	2176	CG	ARG	C3047	5.554	-19.924	15.887	1.00	38.72	C
ATOM	2177	CD	ARG	C3047	5.695	-21.177	16.731	1.00	40.55	C
ATOM	2178	NE	ARG	C3047	6.145	-20.870	18.083	1.00	41.86	N
ATOM	2179	CZ	ARG	C3047	7.328	-20.335	18.369	1.00	42.33	C
ATOM	2180	NH1	ARG	C3047	8.181	-20.050	17.395	1.00	43.10	N
ATOM	2181	NH2	ARG	C3047	7.659	-20.087	19.629	1.00	42.88	N
ATOM	2182	C	ARG	C3047	6.408	-19.329	12.223	1.00	34.36	C
ATOM	2183	O	ARG	C3047	7.518	-18.812	12.057	1.00	33.67	O
ATOM	2184	N	GLN	C3048	5.852	-20.152	11.340	1.00	32.32	N
ATOM	2185	CA	GLN	C3048	6.522	-20.493	10.095	1.00	30.19	C
ATOM	2186	CB	GLN	C3048	5.709	-21.538	9.326	1.00	30.56	C

ATOM	2187	CG	GLN	C3048	6.346	-21.947	8.010	1.00	31.08	C
ATOM	2188	CD	GLN	C3048	5.545	-22.989	7.256	1.00	31.55	C
ATOM	2189	OE1	GLN	C3048	4.363	-22.793	6.971	1.00	32.61	O
ATOM	2190	NE2	GLN	C3048	6.189	-24.100	6.919	1.00	31.23	N
ATOM	2191	C	GLN	C3048	6.749	-19.266	9.211	1.00	28.78	C
ATOM	2192	O	GLN	C3048	7.816	-19.113	8.615	1.00	27.77	O
ATOM	2193	N	ILE	C3049	5.747	-18.396	9.124	1.00	27.16	N
ATOM	2194	CA	ILE	C3049	5.862	-17.195	8.298	1.00	26.51	C
ATOM	2195	CB	ILE	C3049	4.485	-16.521	8.086	1.00	26.30	C
ATOM	2196	CG2	ILE	C3049	4.647	-15.250	7.255	1.00	26.17	C
ATOM	2197	CG1	ILE	C3049	3.530	-17.491	7.380	1.00	26.22	C
ATOM	2198	CD1	ILE	C3049	4.023	-17.978	6.014	1.00	26.61	C
ATOM	2199	C	ILE	C3049	6.831	-16.178	8.910	1.00	25.94	C
ATOM	2200	O	ILE	C3049	7.570	-15.510	8.192	1.00	25.27	O
ATOM	2201	N	GLU	C3050	6.824	-16.069	10.236	1.00	26.02	N
ATOM	2202	CA	GLU	C3050	7.716	-15.141	10.935	1.00	25.96	C
ATOM	2203	CB	GLU	C3050	7.347	-15.075	12.423	1.00	27.39	C
ATOM	2204	CG	GLU	C3050	6.073	-14.287	12.724	1.00	29.92	C
ATOM	2205	CD	GLU	C3050	6.345	-12.853	13.175	1.00	31.52	C
ATOM	2206	OE1	GLU	C3050	7.446	-12.322	12.894	1.00	32.57	O
ATOM	2207	OE2	GLU	C3050	5.444	-12.252	13.802	1.00	31.86	O
ATOM	2208	C	GLU	C3050	9.195	-15.521	10.792	1.00	24.88	C
ATOM	2209	O	GLU	C3050	10.061	-14.650	10.815	1.00	24.17	O
ATOM	2210	N	TYR	C3051	9.481	-16.815	10.652	1.00	23.54	N
ATOM	2211	CA	TYR	C3051	10.863	-17.281	10.508	1.00	22.59	C
ATOM	2212	CB	TYR	C3051	10.941	-18.808	10.711	1.00	23.12	C
ATOM	2213	CG	TYR	C3051	12.317	-19.425	10.473	1.00	23.17	C
ATOM	2214	CD1	TYR	C3051	12.685	-19.902	9.213	1.00	23.85	C
ATOM	2215	CE1	TYR	C3051	13.954	-20.454	8.984	1.00	24.32	C
ATOM	2216	CD2	TYR	C3051	13.253	-19.515	11.504	1.00	24.30	C
ATOM	2217	CE2	TYR	C3051	14.528	-20.064	11.288	1.00	24.54	C
ATOM	2218	CZ	TYR	C3051	14.868	-20.528	10.026	1.00	24.99	C
ATOM	2219	OH	TYR	C3051	16.122	-21.050	9.803	1.00	25.78	O
ATOM	2220	C	TYR	C3051	11.419	-16.894	9.140	1.00	22.18	C
ATOM	2221	O	TYR	C3051	12.546	-16.395	9.031	1.00	20.97	O
ATOM	2222	N	LEU	C3052	10.618	-17.115	8.101	1.00	21.39	N
ATOM	2223	CA	LEU	C3052	11.016	-16.787	6.736	1.00	21.55	C
ATOM	2224	CB	LEU	C3052	9.935	-17.254	5.747	1.00	22.13	C
ATOM	2225	CG	LEU	C3052	10.124	-16.929	4.259	1.00	21.93	C
ATOM	2226	CD1	LEU	C3052	11.439	-17.515	3.755	1.00	22.55	C
ATOM	2227	CD2	LEU	C3052	8.958	-17.495	3.469	1.00	22.75	C
ATOM	2228	C	LEU	C3052	11.245	-15.284	6.574	1.00	21.31	C
ATOM	2229	O	LEU	C3052	12.196	-14.866	5.914	1.00	21.85	O
ATOM	2230	N	ALA	C3053	10.371	-14.484	7.181	1.00	20.68	N
ATOM	2231	CA	ALA	C3053	10.454	-13.025	7.102	1.00	20.75	C
ATOM	2232	CB	ALA	C3053	9.203	-12.401	7.738	1.00	20.99	C
ATOM	2233	C	ALA	C3053	11.720	-12.469	7.768	1.00	20.60	C
ATOM	2234	O	ALA	C3053	12.356	-11.552	7.237	1.00	20.36	O
ATOM	2235	N	GLY	C3054	12.073	-13.027	8.925	1.00	20.45	N
ATOM	2236	CA	GLY	C3054	13.264	-12.597	9.646	1.00	20.63	C
ATOM	2237	C	GLY	C3054	14.576	-12.928	8.945	1.00	20.53	C
ATOM	2238	O	GLY	C3054	15.550	-12.174	9.034	1.00	19.61	O
ATOM	2239	N	ARG	C3055	14.620	-14.065	8.256	1.00	20.88	N
ATOM	2240	CA	ARG	C3055	15.824	-14.457	7.527	1.00	21.09	C
ATOM	2241	CB	ARG	C3055	15.731	-15.930	7.101	1.00	21.81	C
ATOM	2242	CG	ARG	C3055	16.533	-16.895	7.988	1.00	23.24	C
ATOM	2243	CD	ARG	C3055	16.139	-16.801	9.465	1.00	23.82	C

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ATOM	2244	NE	ARG	C3055	17.018	-17.600	10.325	1.00	23.91	N
ATOM	2245	CZ	ARG	C3055	16.881	-17.706	11.646	1.00	24.64	C
ATOM	2246	NH1	ARG	C3055	15.901	-17.065	12.267	1.00	23.93	N
ATOM	2247	NH2	ARG	C3055	17.719	-18.459	12.352	1.00	25.21	N
ATOM	2248	C	ARG	C3055	16.017	-13.552	6.301	1.00	21.23	C
ATOM	2249	O	ARG	C3055	17.142	-13.234	5.921	1.00	20.84	O
ATOM	2250	N	TRP	C3056	14.911	-13.132	5.694	1.00	21.62	N
ATOM	2251	CA	TRP	C3056	14.958	-12.247	4.529	1.00	22.92	C
ATOM	2252	CB	TRP	C3056	13.559	-12.121	3.910	1.00	25.18	C
ATOM	2253	CG	TRP	C3056	13.515	-11.388	2.594	1.00	27.65	C
ATOM	2254	CD2	TRP	C3056	13.357	-9.977	2.401	1.00	28.51	C
ATOM	2255	CE2	TRP	C3056	13.413	-9.736	1.009	1.00	29.11	C
ATOM	2256	CE3	TRP	C3056	13.176	-8.892	3.269	1.00	29.11	C
ATOM	2257	CD1	TRP	C3056	13.656	-11.931	1.344	1.00	28.78	C
ATOM	2258	NE1	TRP	C3056	13.596	-10.944	0.388	1.00	29.88	N
ATOM	2259	CZ2	TRP	C3056	13.296	-8.453	0.465	1.00	28.95	C
ATOM	2260	CZ3	TRP	C3056	13.060	-7.614	2.726	1.00	29.68	C
ATOM	2261	CH2	TRP	C3056	13.121	-7.409	1.336	1.00	29.31	C
ATOM	2262	C	TRP	C3056	15.453	-10.855	4.953	1.00	22.17	C
ATOM	2263	O	TRP	C3056	16.286	-10.247	4.281	1.00	22.33	O
ATOM	2264	N	SER	C3057	14.942	-10.365	6.078	1.00	21.01	N
ATOM	2265	CA	SER	C3057	15.311	-9.041	6.587	1.00	20.66	C
ATOM	2266	CB	SER	C3057	14.388	-8.663	7.751	1.00	21.23	C
ATOM	2267	OG	SER	C3057	14.569	-7.311	8.147	1.00	22.78	O
ATOM	2268	C	SER	C3057	16.786	-8.969	7.025	1.00	20.18	C
ATOM	2269	O	SER	C3057	17.464	-7.959	6.803	1.00	19.84	O
ATOM	2270	N	ALA	C3058	17.280	-10.043	7.633	1.00	18.66	N
ATOM	2271	CA	ALA	C3058	18.671	-10.090	8.085	1.00	18.83	C
ATOM	2272	CB	ALA	C3058	18.905	-11.344	8.939	1.00	17.30	C
ATOM	2273	C	ALA	C3058	19.663	-10.062	6.915	1.00	18.44	C
ATOM	2274	O	ALA	C3058	20.693	-9.381	6.980	1.00	18.07	O
ATOM	2275	N	LYS	C3059	19.359	-10.803	5.851	1.00	18.60	N
ATOM	2276	CA	LYS	C3059	20.252	-10.850	4.692	1.00	18.76	C
ATOM	2277	CB	LYS	C3059	19.848	-12.012	3.766	1.00	18.60	C
ATOM	2278	CG	LYS	C3059	19.956	-13.396	4.447	1.00	18.86	C
ATOM	2279	CD	LYS	C3059	19.739	-14.578	3.494	1.00	19.28	C
ATOM	2280	CE	LYS	C3059	19.815	-15.920	4.244	1.00	20.00	C
ATOM	2281	NZ	LYS	C3059	19.590	-17.130	3.388	1.00	20.93	N
ATOM	2282	C	LYS	C3059	20.274	-9.508	3.938	1.00	19.50	C
ATOM	2283	O	LYS	C3059	21.306	-9.117	3.388	1.00	20.13	O
ATOM	2284	N	GLU	C3060	19.142	-8.804	3.935	1.00	20.20	N
ATOM	2285	CA	GLU	C3060	19.026	-7.501	3.277	1.00	20.95	C
ATOM	2286	CB	GLU	C3060	17.550	-7.090	3.205	1.00	23.10	C
ATOM	2287	CG	GLU	C3060	17.268	-5.738	2.545	1.00	26.69	C
ATOM	2288	CD	GLU	C3060	17.579	-5.717	1.055	1.00	29.57	C
ATOM	2289	OE1	GLU	C3060	17.161	-6.660	0.341	1.00	30.70	O
ATOM	2290	OE2	GLU	C3060	18.232	-4.749	0.598	1.00	31.10	O
ATOM	2291	C	GLU	C3060	19.837	-6.432	4.030	1.00	20.53	C
ATOM	2292	O	GLU	C3060	20.455	-5.563	3.414	1.00	20.28	O
ATOM	2293	N	ALA	C3061	19.838	-6.497	5.360	1.00	19.74	N
ATOM	2294	CA	ALA	C3061	20.591	-5.531	6.165	1.00	19.24	C
ATOM	2295	CB	ALA	C3061	20.252	-5.696	7.656	1.00	19.62	C
ATOM	2296	C	ALA	C3061	22.097	-5.711	5.938	1.00	18.92	C
ATOM	2297	O	ALA	C3061	22.848	-4.732	5.885	1.00	18.37	O
ATOM	2298	N	PHE	C3062	22.530	-6.963	5.811	1.00	18.75	N
ATOM	2299	CA	PHE	C3062	23.941	-7.270	5.570	1.00	19.65	C
ATOM	2300	CB	PHE	C3062	24.190	-8.783	5.714	1.00	19.70	C

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ATOM	2301	CG	PHE	C3062	25.592	-9.224	5.325	1.00	20.12	C
ATOM	2302	CD1	PHE	C3062	25.917	-9.472	3.988	1.00	20.55	C
ATOM	2303	CD2	PHE	C3062	26.577	-9.391	6.293	1.00	20.19	C
ATOM	2304	CE1	PHE	C3062	27.200	-9.883	3.622	1.00	21.03	C
ATOM	2305	CE2	PHE	C3062	27.871	-9.803	5.940	1.00	20.44	C
ATOM	2306	CZ	PHE	C3062	28.181	-10.049	4.598	1.00	20.96	C
ATOM	2307	C	PHE	C3062	24.381	-6.784	4.182	1.00	20.13	C
ATOM	2308	O	PHE	C3062	25.474	-6.231	4.037	1.00	20.04	O
ATOM	2309	N	SER	C3063	23.530	-6.981	3.174	1.00	21.29	N
ATOM	2310	CA	SER	C3063	23.840	-6.551	1.808	1.00	22.13	C
ATOM	2311	CB	SER	C3063	22.727	-6.967	0.832	1.00	22.59	C
ATOM	2312	OG	SER	C3063	22.699	-8.374	0.636	1.00	24.36	O
ATOM	2313	C	SER	C3063	24.019	-5.032	1.762	1.00	22.61	C
ATOM	2314	O	SER	C3063	24.913	-4.527	1.082	1.00	22.10	O
ATOM	2315	N	LYS	C3064	23.160	-4.309	2.477	1.00	22.80	N
ATOM	2316	CA	LYS	C3064	23.257	-2.852	2.530	1.00	24.07	C
ATOM	2317	CB	LYS	C3064	22.013	-2.261	3.210	1.00	23.92	C
ATOM	2318	CG	LYS	C3064	20.734	-2.376	2.377	1.00	23.95	C
ATOM	2319	CD	LYS	C3064	19.505	-1.886	3.138	1.00	24.12	C
ATOM	2320	CE	LYS	C3064	19.616	-0.407	3.519	1.00	24.30	C
ATOM	2321	NZ	LYS	C3064	18.388	0.060	4.209	1.00	24.43	N
ATOM	2322	C	LYS	C3064	24.519	-2.408	3.281	1.00	24.84	C
ATOM	2323	O	LYS	C3064	25.132	-1.401	2.939	1.00	24.90	O
ATOM	2324	N	ALA	C3065	24.916	-3.166	4.297	1.00	26.22	N
ATOM	2325	CA	ALA	C3065	26.101	-2.818	5.079	1.00	28.20	C
ATOM	2326	CB	ALA	C3065	26.184	-3.693	6.324	1.00	28.57	C
ATOM	2327	C	ALA	C3065	27.396	-2.943	4.277	1.00	30.15	C
ATOM	2328	O	ALA	C3065	28.346	-2.188	4.492	1.00	29.72	O
ATOM	2329	N	MET	C3066	27.435	-3.903	3.361	1.00	32.11	N
ATOM	2330	CA	MET	C3066	28.629	-4.113	2.555	1.00	35.57	C
ATOM	2331	CB	MET	C3066	28.706	-5.577	2.115	1.00	36.03	C
ATOM	2332	CG	MET	C3066	30.087	-5.993	1.635	1.00	38.01	C
ATOM	2333	SD	MET	C3066	30.589	-7.586	2.315	1.00	39.43	S
ATOM	2334	CE	MET	C3066	29.820	-8.664	1.141	1.00	38.43	C
ATOM	2335	C	MET	C3066	28.641	-3.186	1.340	1.00	37.25	C
ATOM	2336	O	MET	C3066	29.690	-2.928	0.753	1.00	37.48	O
ATOM	2337	N	GLY	C3067	27.468	-2.678	0.978	1.00	39.12	N
ATOM	2338	CA	GLY	C3067	27.372	-1.782	-0.158	1.00	41.84	C
ATOM	2339	C	GLY	C3067	27.338	-2.554	-1.458	1.00	43.68	C
ATOM	2340	O	GLY	C3067	28.251	-2.446	-2.277	1.00	44.30	O
ATOM	2341	N	THR	C3068	26.281	-3.337	-1.648	1.00	45.16	N
ATOM	2342	CA	THR	C3068	26.133	-4.140	-2.853	1.00	46.52	C
ATOM	2343	CB	THR	C3068	27.012	-5.409	-2.771	1.00	46.98	C
ATOM	2344	OG1	THR	C3068	26.723	-6.268	-3.880	1.00	47.83	O
ATOM	2345	CG2	THR	C3068	26.756	-6.154	-1.469	1.00	47.19	C
ATOM	2346	C	THR	C3068	24.679	-4.546	-3.076	1.00	47.27	C
ATOM	2347	O	THR	C3068	23.940	-4.800	-2.123	1.00	47.53	O
ATOM	2348	N	GLY	C3069	24.272	-4.597	-4.341	1.00	47.97	N
ATOM	2349	CA	GLY	C3069	22.908	-4.969	-4.668	1.00	48.41	C
ATOM	2350	C	GLY	C3069	22.848	-6.140	-5.629	1.00	48.94	C
ATOM	2351	O	GLY	C3069	22.349	-5.952	-6.758	1.00	49.17	O
ATOM	2352	OXT	GLY	C3069	23.304	-7.244	-5.257	1.00	49.26	O
TER	2353		GLY	C3069						
ATOM	2354	C	GLY	C3074	23.102	-14.343	-2.448	1.00	42.87	C
ATOM	2355	O	GLY	C3074	23.918	-14.155	-1.552	1.00	43.22	O
ATOM	2356	N	GLY	C3074	23.249	-12.549	-4.163	1.00	43.05	N
ATOM	2357	CA	GLY	C3074	23.446	-14.000	-3.885	1.00	42.94	C

ATOM	2358	N	PHE	C3075	21.892	-14.845	-2.228	1.00	42.82	N
ATOM	2359	CA	PHE	C3075	21.441	-15.212	-0.890	1.00	42.97	C
ATOM	2360	CB	PHE	C3075	19.920	-15.035	-0.787	1.00	43.13	C
ATOM	2361	CG	PHE	C3075	19.484	-13.638	-0.400	1.00	43.82	C
ATOM	2362	CD1	PHE	C3075	20.299	-12.534	-0.647	1.00	43.85	C
ATOM	2363	CD2	PHE	C3075	18.243	-13.429	0.199	1.00	43.74	C
ATOM	2364	CE1	PHE	C3075	19.883	-11.243	-0.304	1.00	44.03	C
ATOM	2365	CE2	PHE	C3075	17.817	-12.144	0.545	1.00	44.13	C
ATOM	2366	CZ	PHE	C3075	18.639	-11.049	0.293	1.00	44.14	C
ATOM	2367	C	PHE	C3075	21.826	-16.639	-0.516	1.00	42.74	C
ATOM	2368	O	PHE	C3075	21.820	-17.007	0.661	1.00	42.92	O
ATOM	2369	N	GLN	C3076	22.175	-17.438	-1.518	1.00	42.00	N
ATOM	2370	CA	GLN	C3076	22.548	-18.824	-1.276	1.00	41.00	C
ATOM	2371	CB	GLN	C3076	22.537	-19.615	-2.587	1.00	41.57	C
ATOM	2372	CG	GLN	C3076	21.135	-19.865	-3.119	1.00	42.06	C
ATOM	2373	CD	GLN	C3076	20.286	-20.695	-2.171	1.00	42.45	C
ATOM	2374	OE1	GLN	C3076	19.056	-20.670	-2.243	1.00	42.81	O
ATOM	2375	NE2	GLN	C3076	20.938	-21.445	-1.284	1.00	42.52	N
ATOM	2376	C	GLN	C3076	23.892	-18.977	-0.584	1.00	40.27	C
ATOM	2377	O	GLN	C3076	24.216	-20.060	-0.103	1.00	40.25	O
ATOM	2378	N	ASP	C3077	24.682	-17.907	-0.537	1.00	38.81	N
ATOM	2379	CA	ASP	C3077	25.965	-17.981	0.148	1.00	37.42	C
ATOM	2380	CB	ASP	C3077	27.107	-17.527	-0.769	1.00	39.03	C
ATOM	2381	CG	ASP	C3077	27.008	-16.075	-1.152	1.00	40.35	C
ATOM	2382	OD1	ASP	C3077	25.897	-15.635	-1.514	1.00	41.46	O
ATOM	2383	OD2	ASP	C3077	28.048	-15.379	-1.102	1.00	40.89	O
ATOM	2384	C	ASP	C3077	25.926	-17.158	1.438	1.00	35.34	C
ATOM	2385	O	ASP	C3077	26.916	-16.556	1.848	1.00	35.66	O
ATOM	2386	N	LEU	C3078	24.751	-17.142	2.060	1.00	32.99	N
ATOM	2387	CA	LEU	C3078	24.513	-16.456	3.328	1.00	30.22	C
ATOM	2388	CB	LEU	C3078	23.775	-15.127	3.113	1.00	30.01	C
ATOM	2389	CG	LEU	C3078	24.478	-13.972	2.393	1.00	30.35	C
ATOM	2390	CD1	LEU	C3078	23.555	-12.762	2.352	1.00	29.89	C
ATOM	2391	CD2	LEU	C3078	25.768	-13.615	3.114	1.00	31.03	C
ATOM	2392	C	LEU	C3078	23.632	-17.392	4.165	1.00	27.99	C
ATOM	2393	O	LEU	C3078	22.645	-17.927	3.659	1.00	27.40	O
ATOM	2394	N	GLU	C3079	23.984	-17.589	5.435	1.00	25.61	N
ATOM	2395	CA	GLU	C3079	23.206	-18.467	6.310	1.00	24.01	C
ATOM	2396	CB	GLU	C3079	23.815	-19.876	6.284	1.00	24.83	C
ATOM	2397	CG	GLU	C3079	23.137	-20.897	7.190	1.00	25.45	C
ATOM	2398	CD	GLU	C3079	23.716	-22.290	7.022	1.00	26.01	C
ATOM	2399	OE1	GLU	C3079	23.270	-23.022	6.110	1.00	26.62	O
ATOM	2400	OE2	GLU	C3079	24.627	-22.648	7.797	1.00	25.76	O
ATOM	2401	C	GLU	C3079	23.113	-17.945	7.756	1.00	22.32	C
ATOM	2402	O	GLU	C3079	24.113	-17.500	8.335	1.00	21.78	O
ATOM	2403	N	VAL	C3080	21.905	-18.007	8.319	1.00	20.99	N
ATOM	2404	CA	VAL	C3080	21.616	-17.554	9.685	1.00	19.93	C
ATOM	2405	CB	VAL	C3080	20.634	-16.347	9.666	1.00	19.55	C
ATOM	2406	CG1	VAL	C3080	20.302	-15.911	11.099	1.00	18.41	C
ATOM	2407	CG2	VAL	C3080	21.246	-15.183	8.878	1.00	19.42	C
ATOM	2408	C	VAL	C3080	20.992	-18.667	10.550	1.00	20.28	C
ATOM	2409	O	VAL	C3080	19.888	-19.140	10.261	1.00	19.70	O
ATOM	2410	N	LEU	C3081	21.701	-19.075	11.606	1.00	20.21	N
ATOM	2411	CA	LEU	C3081	21.232	-20.121	12.521	1.00	21.05	C
ATOM	2412	CB	LEU	C3081	22.240	-21.290	12.559	1.00	21.12	C
ATOM	2413	CG	LEU	C3081	22.698	-21.950	11.246	1.00	20.96	C
ATOM	2414	CD1	LEU	C3081	23.699	-23.067	11.542	1.00	21.74	C

ATOM	2415	CD2	LEU	C3081	21.497	-22.498	10.489	1.00	20.34	C
ATOM	2416	C	LEU	C3081	21.041	-19.566	13.948	1.00	21.83	C
ATOM	2417	O	LEU	C3081	21.340	-18.399	14.211	1.00	20.95	O
ATOM	2418	N	ASN	C3082	20.546	-20.411	14.855	1.00	22.96	N
ATOM	2419	CA	ASN	C3082	20.322	-20.043	16.262	1.00	24.19	C
ATOM	2420	CB	ASN	C3082	18.857	-20.281	16.654	1.00	24.95	C
ATOM	2421	CG	ASN	C3082	17.913	-19.223	16.101	1.00	25.21	C
ATOM	2422	OD1	ASN	C3082	17.843	-18.100	16.611	1.00	26.05	O
ATOM	2423	ND2	ASN	C3082	17.184	-19.577	15.055	1.00	24.39	N
ATOM	2424	C	ASN	C3082	21.212	-20.890	17.184	1.00	24.76	C
ATOM	2425	O	ASN	C3082	21.268	-22.114	17.034	1.00	24.23	O
ATOM	2426	N	ASN	C3083	21.901	-20.258	18.133	1.00	24.88	N
ATOM	2427	CA	ASN	C3083	22.753	-21.024	19.046	1.00	26.41	C
ATOM	2428	CB	ASN	C3083	23.880	-20.147	19.619	1.00	26.57	C
ATOM	2429	CG	ASN	C3083	23.394	-19.088	20.603	1.00	27.00	C
ATOM	2430	OD1	ASN	C3083	24.185	-18.255	21.047	1.00	28.80	O
ATOM	2431	ND2	ASN	C3083	22.114	-19.115	20.952	1.00	25.26	N
ATOM	2432	C	ASN	C3083	21.922	-21.676	20.159	1.00	26.81	C
ATOM	2433	O	ASN	C3083	20.697	-21.536	20.178	1.00	26.49	O
ATOM	2434	N	GLU	C3084	22.567	-22.390	21.078	1.00	27.91	N
ATOM	2435	CA	GLU	C3084	21.815	-23.070	22.132	1.00	28.75	C
ATOM	2436	CB	GLU	C3084	22.716	-24.035	22.917	1.00	29.93	C
ATOM	2437	CG	GLU	C3084	24.064	-23.506	23.335	1.00	31.45	C
ATOM	2438	CD	GLU	C3084	24.916	-24.594	23.966	1.00	32.85	C
ATOM	2439	OE1	GLU	C3084	26.051	-24.298	24.397	1.00	33.48	O
ATOM	2440	OE2	GLU	C3084	24.445	-25.752	24.029	1.00	33.46	O
ATOM	2441	C	GLU	C3084	21.024	-22.189	23.092	1.00	28.50	C
ATOM	2442	O	GLU	C3084	20.074	-22.664	23.714	1.00	28.13	O
ATOM	2443	N	ARG	C3085	21.399	-20.917	23.215	1.00	28.57	N
ATOM	2444	CA	ARG	C3085	20.661	-20.001	24.085	1.00	28.82	C
ATOM	2445	CB	ARG	C3085	21.584	-18.929	24.670	1.00	29.93	C
ATOM	2446	CG	ARG	C3085	22.566	-19.469	25.692	1.00	31.34	C
ATOM	2447	CD	ARG	C3085	22.949	-18.409	26.713	1.00	33.11	C
ATOM	2448	NE	ARG	C3085	23.902	-18.936	27.683	1.00	33.67	N
ATOM	2449	CZ	ARG	C3085	25.167	-19.217	27.398	1.00	34.16	C
ATOM	2450	NH1	ARG	C3085	25.630	-19.014	26.171	1.00	34.21	N
ATOM	2451	NH2	ARG	C3085	25.965	-19.715	28.330	1.00	33.81	N
ATOM	2452	C	ARG	C3085	19.519	-19.332	23.318	1.00	28.44	C
ATOM	2453	O	ARG	C3085	18.663	-18.667	23.912	1.00	28.67	O
ATOM	2454	N	GLY	C3086	19.522	-19.496	21.996	1.00	27.15	N
ATOM	2455	CA	GLY	C3086	18.466	-18.928	21.170	1.00	26.89	C
ATOM	2456	C	GLY	C3086	18.800	-17.712	20.316	1.00	26.43	C
ATOM	2457	O	GLY	C3086	17.942	-17.229	19.581	1.00	26.94	O
ATOM	2458	N	ALA	C3087	20.031	-17.218	20.396	1.00	25.34	N
ATOM	2459	CA	ALA	C3087	20.432	-16.043	19.622	1.00	25.00	C
ATOM	2460	CB	ALA	C3087	21.610	-15.361	20.300	1.00	25.01	C
ATOM	2461	C	ALA	C3087	20.788	-16.355	18.163	1.00	24.71	C
ATOM	2462	O	ALA	C3087	21.385	-17.394	17.867	1.00	23.78	O
ATOM	2463	N	PRO	C3088	20.413	-15.457	17.231	1.00	23.74	N
ATOM	2464	CD	PRO	C3088	19.533	-14.291	17.448	1.00	24.91	C
ATOM	2465	CA	PRO	C3088	20.697	-15.631	15.800	1.00	23.12	C
ATOM	2466	CB	PRO	C3088	19.628	-14.762	15.136	1.00	24.34	C
ATOM	2467	CG	PRO	C3088	19.551	-13.593	16.083	1.00	24.53	C
ATOM	2468	C	PRO	C3088	22.115	-15.157	15.466	1.00	22.17	C
ATOM	2469	O	PRO	C3088	22.606	-14.198	16.070	1.00	21.42	O
ATOM	2470	N	TYR	C3089	22.765	-15.826	14.512	1.00	20.38	N
ATOM	2471	CA	TYR	C3089	24.128	-15.469	14.098	1.00	19.72	C

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ATOM	2472	CB	TYR	C3089	25.149	-16.054	15.097	1.00	19.67	C
ATOM	2473	CG	TYR	C3089	25.352	-17.564	15.029	1.00	19.93	C
ATOM	2474	CD1	TYR	C3089	26.410	-18.110	14.294	1.00	21.07	C
ATOM	2475	CE1	TYR	C3089	26.594	-19.497	14.194	1.00	20.45	C
ATOM	2476	CD2	TYR	C3089	24.477	-18.446	15.672	1.00	20.53	C
ATOM	2477	CE2	TYR	C3089	24.653	-19.848	15.578	1.00	20.54	C
ATOM	2478	CZ	TYR	C3089	25.717	-20.359	14.833	1.00	20.66	C
ATOM	2479	OH	TYR	C3089	25.908	-21.725	14.713	1.00	19.20	O
ATOM	2480	C	TYR	C3089	24.428	-15.972	12.671	1.00	19.17	C
ATOM	2481	O	TYR	C3089	23.820	-16.944	12.213	1.00	17.72	O
ATOM	2482	N	PHE	C3090	25.340	-15.295	11.967	1.00	19.73	N
ATOM	2483	CA	PHE	C3090	25.729	-15.704	10.607	1.00	20.26	C
ATOM	2484	CB	PHE	C3090	26.310	-14.529	9.800	1.00	20.96	C
ATOM	2485	CG	PHE	C3090	25.274	-13.607	9.198	1.00	20.15	C
ATOM	2486	CD1	PHE	C3090	24.812	-12.499	9.902	1.00	20.78	C
ATOM	2487	CD2	PHE	C3090	24.791	-13.831	7.912	1.00	20.37	C
ATOM	2488	CE1	PHE	C3090	23.880	-11.620	9.330	1.00	20.73	C
ATOM	2489	CE2	PHE	C3090	23.860	-12.964	7.326	1.00	20.67	C
ATOM	2490	CZ	PHE	C3090	23.404	-11.853	8.040	1.00	20.35	C
ATOM	2491	C	PHE	C3090	26.788	-16.812	10.637	1.00	20.91	C
ATOM	2492	O	PHE	C3090	27.905	-16.598	11.117	1.00	20.54	O
ATOM	2493	N	SER	C3091	26.442	-17.986	10.116	1.00	21.82	N
ATOM	2494	CA	SER	C3091	27.378	-19.113	10.073	1.00	22.73	C
ATOM	2495	CB	SER	C3091	26.630	-20.435	10.290	1.00	22.96	C
ATOM	2496	OG	SER	C3091	25.613	-20.617	9.318	1.00	23.28	O
ATOM	2497	C	SER	C3091	28.137	-19.164	8.738	1.00	23.33	C
ATOM	2498	O	SER	C3091	29.114	-19.904	8.604	1.00	22.86	O
ATOM	2499	N	GLN	C3092	27.683	-18.375	7.762	1.00	23.62	N
ATOM	2500	CA	GLN	C3092	28.309	-18.319	6.436	1.00	24.85	C
ATOM	2501	CB	GLN	C3092	27.730	-19.439	5.558	1.00	25.88	C
ATOM	2502	CG	GLN	C3092	28.045	-19.357	4.064	1.00	28.11	C
ATOM	2503	CD	GLN	C3092	29.529	-19.339	3.762	1.00	29.40	C
ATOM	2504	OE1	GLN	C3092	30.298	-20.131	4.310	1.00	31.43	O
ATOM	2505	NE2	GLN	C3092	29.940	-18.441	2.874	1.00	30.15	N
ATOM	2506	C	GLN	C3092	28.107	-16.944	5.764	1.00	24.73	C
ATOM	2507	O	GLN	C3092	26.974	-16.472	5.637	1.00	24.71	O
ATOM	2508	N	ALA	C3093	29.205	-16.310	5.343	1.00	23.94	N
ATOM	2509	CA	ALA	C3093	29.160	-14.994	4.685	1.00	23.97	C
ATOM	2510	CB	ALA	C3093	28.779	-13.909	5.706	1.00	23.95	C
ATOM	2511	C	ALA	C3093	30.493	-14.618	4.009	1.00	23.83	C
ATOM	2512	O	ALA	C3093	31.556	-15.008	4.472	1.00	23.82	O
ATOM	2513	N	PRO	C3094	30.443	-13.841	2.910	1.00	24.15	N
ATOM	2514	CD	PRO	C3094	29.221	-13.410	2.203	1.00	24.15	C
ATOM	2515	CA	PRO	C3094	31.649	-13.414	2.177	1.00	24.68	C
ATOM	2516	CB	PRO	C3094	31.098	-13.058	0.801	1.00	24.26	C
ATOM	2517	CG	PRO	C3094	29.762	-12.461	1.144	1.00	24.90	C
ATOM	2518	C	PRO	C3094	32.369	-12.231	2.840	1.00	24.92	C
ATOM	2519	O	PRO	C3094	32.529	-11.165	2.239	1.00	25.65	O
ATOM	2520	N	PHE	C3095	32.810	-12.437	4.076	1.00	25.08	N
ATOM	2521	CA	PHE	C3095	33.495	-11.410	4.864	1.00	25.37	C
ATOM	2522	CB	PHE	C3095	32.444	-10.502	5.521	1.00	24.79	C
ATOM	2523	CG	PHE	C3095	33.015	-9.384	6.356	1.00	24.93	C
ATOM	2524	CD1	PHE	C3095	33.652	-8.299	5.760	1.00	24.60	C
ATOM	2525	CD2	PHE	C3095	32.883	-9.403	7.741	1.00	24.43	C
ATOM	2526	CE1	PHE	C3095	34.148	-7.247	6.536	1.00	24.72	C
ATOM	2527	CE2	PHE	C3095	33.374	-8.358	8.527	1.00	24.22	C
ATOM	2528	CZ	PHE	C3095	34.008	-7.278	7.921	1.00	24.70	C

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ATOM	2529	C	PHE	C3095	34.288	-12.163	5.928	1.00	25.61	C
ATOM	2530	O	PHE	C3095	33.766	-13.101	6.537	1.00	26.06	O
ATOM	2531	N	SER	C3096	35.538	-11.773	6.164	1.00	26.42	N
ATOM	2532	CA	SER	C3096	36.343	-12.485	7.158	1.00	27.23	C
ATOM	2533	CB	SER	C3096	37.709	-12.857	6.558	1.00	27.32	C
ATOM	2534	OG	SER	C3096	38.389	-11.725	6.054	1.00	28.68	O
ATOM	2535	C	SER	C3096	36.529	-11.795	8.515	1.00	27.58	C
ATOM	2536	O	SER	C3096	37.311	-12.259	9.349	1.00	28.21	O
ATOM	2537	N	GLY	C3097	35.807	-10.700	8.745	1.00	27.18	N
ATOM	2538	CA	GLY	C3097	35.908	-10.003	10.021	1.00	26.33	C
ATOM	2539	C	GLY	C3097	34.808	-10.462	10.971	1.00	26.17	C
ATOM	2540	O	GLY	C3097	34.322	-11.584	10.845	1.00	25.72	O
ATOM	2541	N	LYS	C3098	34.408	-9.610	11.916	1.00	25.25	N
ATOM	2542	CA	LYS	C3098	33.347	-9.971	12.864	1.00	24.54	C
ATOM	2543	CB	LYS	C3098	33.759	-9.591	14.289	1.00	25.96	C
ATOM	2544	CG	LYS	C3098	35.059	-10.259	14.723	1.00	28.19	C
ATOM	2545	CD	LYS	C3098	35.079	-10.576	16.208	1.00	29.56	C
ATOM	2546	CE	LYS	C3098	35.022	-9.324	17.053	1.00	30.68	C
ATOM	2547	NZ	LYS	C3098	35.150	-9.647	18.505	1.00	32.82	N
ATOM	2548	C	LYS	C3098	32.013	-9.313	12.498	1.00	22.87	C
ATOM	2549	O	LYS	C3098	31.984	-8.155	12.082	1.00	22.97	O
ATOM	2550	N	ILE	C3099	30.919	-10.060	12.659	1.00	21.29	N
ATOM	2551	CA	ILE	C3099	29.567	-9.589	12.316	1.00	19.46	C
ATOM	2552	CB	ILE	C3099	28.918	-10.546	11.251	1.00	19.44	C
ATOM	2553	CG2	ILE	C3099	27.577	-9.987	10.769	1.00	18.38	C
ATOM	2554	CG1	ILE	C3099	29.869	-10.742	10.062	1.00	19.30	C
ATOM	2555	CD1	ILE	C3099	29.447	-11.853	9.103	1.00	19.40	C
ATOM	2556	C	ILE	C3099	28.632	-9.537	13.544	1.00	18.29	C
ATOM	2557	O	ILE	C3099	28.381	-10.568	14.165	1.00	18.68	O
ATOM	2558	N	TRP	C3100	28.109	-8.357	13.888	1.00	16.88	N
ATOM	2559	CA	TRP	C3100	27.195	-8.233	15.036	1.00	15.59	C
ATOM	2560	CB	TRP	C3100	27.643	-7.078	15.956	1.00	15.65	C
ATOM	2561	CG	TRP	C3100	29.076	-7.231	16.505	1.00	15.70	C
ATOM	2562	CD2	TRP	C3100	29.492	-8.034	17.626	1.00	15.13	C
ATOM	2563	CE2	TRP	C3100	30.901	-7.910	17.735	1.00	15.28	C
ATOM	2564	CE3	TRP	C3100	28.813	-8.846	18.547	1.00	16.40	C
ATOM	2565	CD1	TRP	C3100	30.220	-6.668	15.997	1.00	15.61	C
ATOM	2566	NE1	TRP	C3100	31.321	-7.074	16.734	1.00	15.83	N
ATOM	2567	CZ2	TRP	C3100	31.639	-8.570	18.730	1.00	15.21	C
ATOM	2568	CZ3	TRP	C3100	29.549	-9.504	19.538	1.00	15.48	C
ATOM	2569	CH2	TRP	C3100	30.950	-9.358	19.618	1.00	15.73	C
ATOM	2570	C	TRP	C3100	25.746	-8.022	14.533	1.00	15.44	C
ATOM	2571	O	TRP	C3100	25.438	-6.991	13.924	1.00	14.84	O
ATOM	2572	N	LEU	C3101	24.875	-9.003	14.800	1.00	14.06	N
ATOM	2573	CA	LEU	C3101	23.469	-9.004	14.348	1.00	13.05	C
ATOM	2574	CB	LEU	C3101	23.268	-10.161	13.357	1.00	13.07	C
ATOM	2575	CG	LEU	C3101	21.828	-10.623	13.084	1.00	12.96	C
ATOM	2576	CD1	LEU	C3101	21.208	-9.737	12.015	1.00	13.42	C
ATOM	2577	CD2	LEU	C3101	21.821	-12.083	12.624	1.00	14.82	C
ATOM	2578	C	LEU	C3101	22.382	-9.133	15.430	1.00	12.57	C
ATOM	2579	O	LEU	C3101	22.597	-9.789	16.450	1.00	11.63	O
ATOM	2580	N	SER	C3102	21.215	-8.525	15.181	1.00	12.95	N
ATOM	2581	CA	SER	C3102	20.054	-8.615	16.092	1.00	13.03	C
ATOM	2582	CB	SER	C3102	20.128	-7.536	17.187	1.00	13.35	C
ATOM	2583	OG	SER	C3102	19.148	-7.749	18.205	1.00	12.78	O
ATOM	2584	C	SER	C3102	18.736	-8.484	15.297	1.00	13.43	C
ATOM	2585	O	SER	C3102	18.687	-7.747	14.298	1.00	13.38	O

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ATOM	2586	N	ILE	C3103	17.687	-9.197	15.741	1.00	13.23	N
ATOM	2587	CA	ILE	C3103	16.355	-9.215	15.082	1.00	14.65	C
ATOM	2588	CB	ILE	C3103	16.135	-10.552	14.290	1.00	15.02	C
ATOM	2589	CG2	ILE	C3103	14.776	-10.534	13.581	1.00	14.81	C
ATOM	2590	CG1	ILE	C3103	17.254	-10.764	13.267	1.00	15.40	C
ATOM	2591	CD1	ILE	C3103	17.113	-12.053	12.443	1.00	16.79	C
ATOM	2592	C	ILE	C3103	15.180	-9.123	16.087	1.00	15.28	C
ATOM	2593	O	ILE	C3103	15.239	-9.717	17.166	1.00	15.06	O
ATOM	2594	N	SER	C3104	14.109	-8.414	15.726	1.00	16.55	N
ATOM	2595	CA	SER	C3104	12.930	-8.295	16.614	1.00	17.82	C
ATOM	2596	CB	SER	C3104	13.077	-7.067	17.527	1.00	18.38	C
ATOM	2597	OG	SER	C3104	12.058	-7.028	18.524	1.00	18.13	O
ATOM	2598	C	SER	C3104	11.629	-8.186	15.793	1.00	19.18	C
ATOM	2599	O	SER	C3104	11.672	-7.850	14.608	1.00	18.60	O
ATOM	2600	N	HIS	C3105	10.475	-8.466	16.405	1.00	21.28	N
ATOM	2601	CA	HIS	C3105	9.209	-8.376	15.660	1.00	23.07	C
ATOM	2602	CB	HIS	C3105	8.964	-9.664	14.877	1.00	24.36	C
ATOM	2603	CG	HIS	C3105	8.715	-10.856	15.749	1.00	25.51	C
ATOM	2604	CD2	HIS	C3105	7.631	-11.219	16.474	1.00	26.93	C
ATOM	2605	ND1	HIS	C3105	9.673	-11.815	15.986	1.00	26.74	N
ATOM	2606	CE1	HIS	C3105	9.192	-12.721	16.820	1.00	27.20	C
ATOM	2607	NE2	HIS	C3105	7.955	-12.383	17.132	1.00	28.00	N
ATOM	2608	C	HIS	C3105	7.927	-8.081	16.452	1.00	24.09	C
ATOM	2609	O	HIS	C3105	7.913	-8.058	17.686	1.00	23.14	O
ATOM	2610	N	THR	C3106	6.851	-7.870	15.692	1.00	25.15	N
ATOM	2611	CA	THR	C3106	5.506	-7.616	16.212	1.00	26.55	C
ATOM	2612	CB	THR	C3106	5.100	-6.137	16.097	1.00	26.80	C
ATOM	2613	OG1	THR	C3106	5.097	-5.748	14.717	1.00	27.05	O
ATOM	2614	CG2	THR	C3106	6.052	-5.258	16.880	1.00	27.26	C
ATOM	2615	C	THR	C3106	4.549	-8.437	15.339	1.00	27.26	C
ATOM	2616	O	THR	C3106	4.987	-9.196	14.477	1.00	26.93	O
ATOM	2617	N	ASP	C3107	3.245	-8.287	15.539	1.00	28.56	N
ATOM	2618	CA	ASP	C3107	2.310	-9.067	14.732	1.00	30.14	C
ATOM	2619	CB	ASP	C3107	0.977	-9.243	15.474	1.00	32.49	C
ATOM	2620	CG	ASP	C3107	0.498	-7.968	16.133	1.00	34.70	C
ATOM	2621	OD1	ASP	C3107	0.406	-6.930	15.440	1.00	37.09	O
ATOM	2622	OD2	ASP	C3107	0.209	-8.003	17.348	1.00	36.52	O
ATOM	2623	C	ASP	C3107	2.065	-8.499	13.334	1.00	29.74	C
ATOM	2624	O	ASP	C3107	1.264	-9.043	12.575	1.00	30.83	O
ATOM	2625	N	GLN	C3108	2.762	-7.425	12.979	1.00	28.55	N
ATOM	2626	CA	GLN	C3108	2.578	-6.815	11.665	1.00	27.66	C
ATOM	2627	CB	GLN	C3108	1.942	-5.432	11.822	1.00	27.82	C
ATOM	2628	CG	GLN	C3108	0.557	-5.445	12.466	1.00	28.58	C
ATOM	2629	CD	GLN	C3108	0.012	-4.045	12.681	0.05	28.18	C
ATOM	2630	OE1	GLN	C3108	-1.083	-3.866	13.214	0.05	28.21	O
ATOM	2631	NE2	GLN	C3108	0.779	-3.043	12.266	0.05	28.20	N
ATOM	2632	C	GLN	C3108	3.845	-6.693	10.812	1.00	26.77	C
ATOM	2633	O	GLN	C3108	3.760	-6.652	9.582	1.00	25.82	O
ATOM	2634	N	PHE	C3109	5.015	-6.625	11.449	1.00	25.68	N
ATOM	2635	CA	PHE	C3109	6.268	-6.496	10.697	1.00	24.08	C
ATOM	2636	CB	PHE	C3109	6.441	-5.039	10.221	1.00	25.01	C
ATOM	2637	CG	PHE	C3109	6.572	-4.029	11.343	1.00	26.02	C
ATOM	2638	CD1	PHE	C3109	7.763	-3.908	12.062	1.00	26.89	C
ATOM	2639	CD2	PHE	C3109	5.505	-3.205	11.682	1.00	26.71	C
ATOM	2640	CE1	PHE	C3109	7.889	-2.977	13.105	1.00	27.26	C
ATOM	2641	CE2	PHE	C3109	5.616	-2.268	12.725	1.00	27.81	C
ATOM	2642	CZ	PHE	C3109	6.811	-2.156	13.437	1.00	27.24	C

ATOM	2643	C	PHE	C3109	7.497	-6.950	11.497	1.00	22.66	C
ATOM	2644	O	PHE	C3109	7.382	-7.267	12.681	1.00	21.87	O
ATOM	2645	N	VAL	C3110	8.658	-6.992	10.833	1.00	20.94	N
ATOM	2646	CA	VAL	C3110	9.932	-7.396	11.460	1.00	19.58	C
ATOM	2647	CB	VAL	C3110	10.402	-8.790	10.931	1.00	20.14	C
ATOM	2648	CG1	VAL	C3110	10.731	-8.705	9.443	1.00	20.40	C
ATOM	2649	CG2	VAL	C3110	11.639	-9.268	11.707	1.00	21.57	C
ATOM	2650	C	VAL	C3110	11.049	-6.374	11.162	1.00	18.29	C
ATOM	2651	O	VAL	C3110	10.982	-5.675	10.154	1.00	16.70	O
ATOM	2652	N	THR	C3111	12.065	-6.298	12.035	1.00	17.21	N
ATOM	2653	CA	THR	C3111	13.210	-5.383	11.852	1.00	16.21	C
ATOM	2654	CB	THR	C3111	13.109	-4.122	12.781	1.00	16.74	C
ATOM	2655	OG1	THR	C3111	13.100	-4.528	14.159	1.00	19.56	O
ATOM	2656	CG2	THR	C3111	11.851	-3.321	12.485	1.00	18.23	C
ATOM	2657	C	THR	C3111	14.551	-6.096	12.159	1.00	15.10	C
ATOM	2658	O	THR	C3111	14.575	-7.053	12.945	1.00	13.98	O
ATOM	2659	N	ALA	C3112	15.643	-5.638	11.532	1.00	13.72	N
ATOM	2660	CA	ALA	C3112	16.996	-6.210	11.737	1.00	14.06	C
ATOM	2661	CB	ALA	C3112	17.266	-7.324	10.712	1.00	13.98	C
ATOM	2662	C	ALA	C3112	18.092	-5.135	11.630	1.00	13.79	C
ATOM	2663	O	ALA	C3112	17.936	-4.164	10.884	1.00	14.41	O
ATOM	2664	N	SER	C3113	19.194	-5.320	12.364	1.00	13.18	N
ATOM	2665	CA	SER	C3113	20.321	-4.369	12.395	1.00	12.99	C
ATOM	2666	CB	SER	C3113	20.210	-3.510	13.665	1.00	12.64	C
ATOM	2667	OG	SER	C3113	21.209	-2.499	13.724	1.00	12.28	O
ATOM	2668	C	SER	C3113	21.690	-5.103	12.369	1.00	13.25	C
ATOM	2669	O	SER	C3113	21.875	-6.075	13.097	1.00	12.44	O
ATOM	2670	N	VAL	C3114	22.636	-4.611	11.555	1.00	13.63	N
ATOM	2671	CA	VAL	C3114	23.972	-5.230	11.374	1.00	13.14	C
ATOM	2672	CB	VAL	C3114	24.030	-5.984	9.989	1.00	12.86	C
ATOM	2673	CG1	VAL	C3114	25.467	-6.425	9.641	1.00	13.59	C
ATOM	2674	CG2	VAL	C3114	23.117	-7.194	10.016	1.00	13.11	C
ATOM	2675	C	VAL	C3114	25.161	-4.248	11.419	1.00	13.18	C
ATOM	2676	O	VAL	C3114	25.094	-3.171	10.834	1.00	11.64	O
ATOM	2677	N	ILE	C3115	26.245	-4.631	12.101	1.00	14.05	N
ATOM	2678	CA	ILE	C3115	27.463	-3.797	12.176	1.00	15.16	C
ATOM	2679	CB	ILE	C3115	27.717	-3.208	13.593	1.00	15.92	C
ATOM	2680	CG2	ILE	C3115	28.902	-2.217	13.532	1.00	16.68	C
ATOM	2681	CG1	ILE	C3115	26.482	-2.477	14.122	1.00	15.85	C
ATOM	2682	CD1	ILE	C3115	26.657	-1.949	15.549	1.00	15.56	C
ATOM	2683	C	ILE	C3115	28.699	-4.655	11.836	1.00	16.02	C
ATOM	2684	O	ILE	C3115	28.900	-5.714	12.444	1.00	14.67	O
ATOM	2685	N	LEU	C3116	29.519	-4.195	10.883	1.00	16.42	N
ATOM	2686	CA	LEU	C3116	30.741	-4.920	10.469	1.00	17.73	C
ATOM	2687	CB	LEU	C3116	30.864	-4.910	8.939	1.00	17.22	C
ATOM	2688	CG	LEU	C3116	29.646	-5.423	8.157	1.00	17.27	C
ATOM	2689	CD1	LEU	C3116	29.914	-5.349	6.660	1.00	17.70	C
ATOM	2690	CD2	LEU	C3116	29.339	-6.855	8.570	1.00	18.07	C
ATOM	2691	C	LEU	C3116	32.016	-4.322	11.099	1.00	18.48	C
ATOM	2692	O	LEU	C3116	32.185	-3.101	11.134	1.00	16.07	O
ATOM	2693	N	GLU	C3117	32.926	-5.184	11.562	1.00	20.56	N
ATOM	2694	CA	GLU	C3117	34.150	-4.718	12.227	1.00	23.53	C
ATOM	2695	CB	GLU	C3117	33.939	-4.757	13.754	1.00	24.06	C
ATOM	2696	CG	GLU	C3117	35.200	-4.587	14.608	1.00	24.76	C
ATOM	2697	CD	GLU	C3117	34.952	-4.835	16.103	1.00	25.52	C
ATOM	2698	OE1	GLU	C3117	34.507	-5.946	16.473	1.00	25.65	O
ATOM	2699	OE2	GLU	C3117	35.203	-3.917	16.913	1.00	25.88	O

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ATOM	2700	C	GLU	C3117	35.429	-5.488	11.878	1.00	25.38	C
ATOM	2701	O	GLU	C3117	35.403	-6.695	11.654	1.00	25.28	O
ATOM	2702	N	GLU	C3118	36.545	-4.766	11.840	1.00	28.60	N
ATOM	2703	CA	GLU	C3118	37.857	-5.346	11.559	1.00	32.23	C
ATOM	2704	CB	GLU	C3118	38.321	-4.996	10.139	1.00	33.43	C
ATOM	2705	CG	GLU	C3118	37.520	-5.678	9.038	1.00	35.47	C
ATOM	2706	CD	GLU	C3118	38.123	-5.482	7.657	1.00	36.73	C
ATOM	2707	OE1	GLU	C3118	37.561	-6.029	6.683	1.00	37.62	O
ATOM	2708	OE2	GLU	C3118	39.156	-4.786	7.540	1.00	37.51	O
ATOM	2709	C	GLU	C3118	38.857	-4.800	12.576	1.00	33.91	C
ATOM	2710	O	GLU	C3118	39.168	-3.608	12.576	1.00	34.12	O
ATOM	2711	N	ASN	C3119	39.348	-5.678	13.444	1.00	36.07	N
ATOM	2712	CA	ASN	C3119	40.308	-5.298	14.477	1.00	37.92	C
ATOM	2713	CB	ASN	C3119	40.307	-6.343	15.597	1.00	38.97	C
ATOM	2714	CG	ASN	C3119	38.908	-6.622	16.137	1.00	39.98	C
ATOM	2715	OD1	ASN	C3119	38.271	-5.753	16.737	1.00	40.51	O
ATOM	2716	ND2	ASN	C3119	38.424	-7.841	15.919	1.00	40.65	N
ATOM	2717	C	ASN	C3119	41.713	-5.169	13.889	1.00	38.71	C
ATOM	2718	O	ASN	C3119	41.850	-5.354	12.662	1.00	39.38	O
ATOM	2719	OXT	ASN	C3119	42.661	-4.885	14.657	1.00	39.94	O
TER	2720		ASN	C3119						
ATOM	2721	O	HOH	W5001	1.203	5.537	8.026	1.00	17.73	O
ATOM	2722	O	HOH	W5002	14.815	9.909	2.322	1.00	14.32	O
ATOM	2723	O	HOH	W5003	23.904	8.622	37.957	1.00	27.02	O
ATOM	2724	O	HOH	W5004	20.469	3.444	3.735	1.00	17.55	O
ATOM	2725	O	HOH	W5005	24.018	4.203	28.855	1.00	20.10	O
ATOM	2726	O	HOH	W5006	10.973	5.376	28.684	1.00	19.79	O
ATOM	2727	O	HOH	W5007	22.784	15.314	34.546	1.00	22.90	O
ATOM	2728	O	HOH	W5008	23.453	4.929	3.777	1.00	19.63	O
ATOM	2729	O	HOH	W5009	23.062	1.129	4.843	1.00	21.68	O
ATOM	2730	O	HOH	W5010	25.642	18.163	37.608	1.00	19.94	O
ATOM	2731	O	HOH	W5011	23.184	2.653	2.606	1.00	26.65	O
ATOM	2732	O	HOH	W5012	28.019	0.947	5.252	1.00	22.66	O
ATOM	2733	O	HOH	W5013	4.711	21.958	2.912	1.00	24.85	O
ATOM	2734	O	HOH	W5014	36.483	3.458	10.706	1.00	31.97	O
ATOM	2735	O	HOH	W5015	17.241	0.177	14.610	1.00	23.93	O
ATOM	2736	O	HOH	W5016	13.566	-15.296	11.672	1.00	22.95	O
ATOM	2737	O	HOH	W5017	19.479	14.186	-2.520	1.00	25.49	O
ATOM	2738	O	HOH	W5018	27.283	10.084	6.422	1.00	24.49	O
ATOM	2739	O	HOH	W5019	14.135	8.932	34.920	1.00	26.53	O
ATOM	2740	O	HOH	W5020	36.044	2.408	16.583	1.00	32.56	O
ATOM	2741	O	HOH	W5021	33.258	-17.363	3.678	1.00	19.73	O
ATOM	2742	O	HOH	W5022	15.667	-0.884	2.725	1.00	31.95	O
ATOM	2743	O	HOH	W5023	9.740	-0.876	42.696	1.00	26.45	O
ATOM	2744	O	HOH	W5024	28.298	-24.311	26.736	1.00	36.28	O
ATOM	2745	O	HOH	W5025	16.170	2.461	13.853	1.00	22.79	O
ATOM	2746	O	HOH	W5026	13.623	-1.972	15.922	1.00	33.10	O
ATOM	2747	O	HOH	W5027	35.568	-7.137	18.918	1.00	28.33	O
ATOM	2748	O	HOH	W5028	21.193	8.337	22.471	1.00	24.39	O
ATOM	2749	O	HOH	W5029	0.905	8.530	3.669	1.00	29.99	O
ATOM	2750	O	HOH	W5030	26.791	21.664	30.504	1.00	26.91	O
ATOM	2751	O	HOH	W5031	12.687	-4.279	3.191	1.00	33.49	O
ATOM	2752	O	HOH	W5032	25.981	5.485	38.408	1.00	30.01	O
ATOM	2753	O	HOH	W5033	18.351	-22.326	27.170	1.00	39.62	O
ATOM	2754	O	HOH	W5034	27.692	-22.175	28.942	1.00	33.59	O
ATOM	2755	O	HOH	W5035	7.766	9.184	29.149	1.00	37.38	O
ATOM	2756	O	HOH	W5036	27.081	7.365	5.947	1.00	37.77	O

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ATOM	2757	O	HOH W5037	26.538	19.381	35.080	1.00	37.77	O
ATOM	2758	O	HOH W5038	-4.201	17.799	6.607	1.00	32.96	O
ATOM	2759	O	HOH W5039	5.036	8.700	14.260	1.00	30.11	O
ATOM	2760	O	HOH W5040	0.851	9.642	42.538	1.00	22.98	O
ATOM	2761	O	HOH W5041	19.927	0.231	15.198	1.00	20.70	O
ATOM	2762	O	HOH W5042	38.613	-9.206	13.685	1.00	46.18	O
ATOM	2763	O	HOH W5043	35.672	-15.638	5.122	1.00	43.16	O
ATOM	2764	O	HOH W5044	14.774	-8.966	39.562	1.00	27.43	O
ATOM	2765	O	HOH W5045	-0.343	-11.294	8.886	1.00	35.83	O
ATOM	2766	O	HOH W5046	0.384	7.133	40.132	1.00	36.11	O
ATOM	2767	O	HOH W5047	-1.790	-16.597	10.364	1.00	51.74	O
ATOM	2768	O	HOH W5048	17.913	8.434	22.684	1.00	19.14	O
ATOM	2769	O	HOH W5049	26.849	7.812	30.849	1.00	32.50	O
ATOM	2770	O	HOH W5050	31.682	10.495	7.280	1.00	43.96	O
ATOM	2771	O	HOH W5051	33.295	7.550	31.842	1.00	42.65	O
ATOM	2772	O	HOH W5052	26.726	22.667	9.308	1.00	42.17	O
ATOM	2773	O	HOH W5053	16.839	2.653	43.220	1.00	32.73	O
ATOM	2774	O	HOH W5054	28.300	3.705	0.074	1.00	31.84	O
ATOM	2775	O	HOH W5055	21.249	10.241	40.281	1.00	40.01	O
ATOM	2776	O	HOH W5056	18.910	0.164	43.189	1.00	35.91	O
ATOM	2777	O	HOH W5057	14.293	25.027	1.495	1.00	30.20	O
ATOM	2778	O	HOH W5058	15.432	-0.416	17.518	1.00	26.65	O
ATOM	2779	O	HOH W5059	21.028	5.383	41.219	1.00	31.60	O
ATOM	2780	O	HOH W5060	27.025	7.703	33.714	1.00	38.38	O
ATOM	2781	O	HOH W5061	1.162	-2.470	38.136	1.00	32.76	O
ATOM	2782	O	HOH W5062	7.118	-4.468	3.111	1.00	25.42	O
ATOM	2783	O	HOH W5063	10.345	8.046	50.558	1.00	21.47	O
ATOM	2784	O	HOH W5064	1.601	-6.957	7.392	1.00	19.01	O
ATOM	2785	O	HOH W5065	8.301	8.667	48.256	1.00	31.31	O
ATOM	2786	O	HOH W5066	13.857	7.152	1.988	1.00	29.65	O
ATOM	2787	O	HOH W5067	-8.101	-4.494	44.898	1.00	34.47	O
ATOM	2788	O	HOH W5068	31.896	-17.405	6.589	1.00	41.64	O
ATOM	2789	O	HOH W5069	17.654	-25.606	27.581	1.00	27.36	O
ATOM	2790	O	HOH W5070	23.222	14.650	26.416	1.00	26.05	O
ATOM	2791	O	HOH W5071	7.588	-0.528	0.314	1.00	32.42	O
ATOM	2792	O	HOH W5072	37.956	-17.275	4.444	1.00	27.98	O
ATOM	2793	O	HOH W5073	13.506	-13.814	28.837	1.00	53.93	O
ATOM	2794	O	HOH W5074	32.339	6.763	6.234	1.00	44.01	O
ATOM	2795	O	HOH W5075	17.732	-21.822	12.391	1.00	27.13	O
ATOM	2796	O	HOH W5076	2.962	14.623	32.943	1.00	35.34	O
ATOM	2797	O	HOH W5077	18.219	-11.144	17.921	1.00	32.13	O
ATOM	2798	O	HOH W5078	21.073	24.057	-0.096	1.00	34.29	O
ATOM	2799	O	HOH W5079	15.379	-12.595	24.369	1.00	37.81	O
ATOM	2800	O	HOH W5080	26.131	21.190	0.182	1.00	31.04	O
ATOM	2801	O	HOH W5081	-7.427	-1.162	30.153	1.00	37.22	O
ATOM	2802	O	HOH W5082	9.376	19.648	13.353	1.00	46.89	O
ATOM	2803	O	HOH W5083	26.771	-14.783	26.158	1.00	30.66	O
ATOM	2804	O	HOH W5085	24.158	-4.023	38.598	1.00	29.95	O
ATOM	2805	O	HOH W5086	2.673	-2.236	40.838	1.00	36.71	O
ATOM	2806	O	HOH W5087	14.901	15.719	31.793	1.00	66.05	O
ATOM	2807	O	HOH W5089	0.185	6.149	5.302	1.00	45.92	O
ATOM	2808	O	HOH W5090	-3.050	13.963	3.439	1.00	31.57	O
ATOM	2809	O	HOH W5091	20.002	26.238	4.307	1.00	38.95	O
ATOM	2810	O	HOH W5092	9.528	7.010	25.049	1.00	40.00	O
ATOM	2811	O	HOH W5093	22.998	9.245	25.495	1.00	45.96	O
ATOM	2812	O	HOH W5094	25.633	5.504	41.203	1.00	33.74	O
ATOM	2813	O	HOH W5095	22.525	7.413	40.125	1.00	27.93	O

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ATOM	2814	O	HOH	W5096	25.772	-0.812	38.637	1.00	43.16	O
ATOM	2815	O	HOH	W5097	1.675	3.923	15.398	1.00	24.93	O
ATOM	2816	O	HOH	W5098	3.426	25.166	2.688	1.00	33.60	O
ATOM	2817	O	HOH	W5099	6.716	24.079	2.431	1.00	30.61	O
ATOM	2818	O	HOH	W5100	13.776	2.826	15.316	1.00	35.09	O
ATOM	2819	O	HOH	W5101	2.840	22.627	5.321	1.00	28.88	O
ATOM	2820	O	HOH	W5102	4.306	26.695	0.803	1.00	45.75	O
ATOM	2821	O	HOH	W5103	28.312	3.533	30.225	1.00	30.56	O
ATOM	2822	O	HOH	W5104	7.296	5.105	45.493	1.00	44.55	O
ATOM	2823	O	HOH	W5105	8.727	-7.822	20.152	1.00	30.96	O
ATOM	2824	O	HOH	W5106	15.910	2.991	1.288	1.00	26.19	O
ATOM	2825	O	HOH	W5107	24.692	15.648	32.485	1.00	45.46	O
ATOM	2826	O	HOH	W5108	10.229	10.752	16.032	1.00	39.52	O
ATOM	2827	O	HOH	W5109	30.124	8.492	1.194	1.00	42.53	O
ATOM	2828	O	HOH	W5110	38.431	9.460	12.406	1.00	34.79	O
ATOM	2829	O	HOH	W5111	15.296	-0.704	44.230	1.00	30.31	O
ATOM	2830	O	HOH	W5112	22.219	-25.058	0.518	1.00	40.16	O
ATOM	2831	O	HOH	W5113	16.280	-1.757	13.031	1.00	32.98	O
ATOM	2832	O	HOH	W5114	7.672	5.118	50.500	1.00	42.44	O
ATOM	2833	O	HOH	W5116	19.588	26.165	1.692	1.00	35.11	O
ATOM	2834	O	HOH	W5117	29.689	0.468	33.170	1.00	50.63	O
ATOM	2835	O	HOH	W5118	27.638	14.621	27.167	1.00	37.33	O
ATOM	2836	O	HOH	W5119	25.674	24.122	6.832	1.00	44.26	O
ATOM	2837	O	HOH	W5120	40.801	-13.288	5.322	1.00	31.98	O
ATOM	2838	O	HOH	W5121	36.143	-1.829	16.148	1.00	41.24	O
ATOM	2839	O	HOH	W5122	3.151	5.682	48.883	1.00	34.36	O
ATOM	2840	O	HOH	W5123	32.693	14.445	9.290	1.00	34.74	O
ATOM	2841	O	HOH	W5124	28.701	6.185	34.708	1.00	49.77	O
ATOM	2842	O	HOH	W5125	26.196	1.517	-1.280	1.00	39.43	O
ATOM	2843	O	HOH	W5126	-0.033	0.726	10.398	1.00	47.62	O
ATOM	2844	O	HOH	W5127	21.383	-3.597	-1.922	1.00	51.56	O
ATOM	2845	O	HOH	W5128	13.364	12.833	27.633	1.00	52.29	O
ATOM	2846	O	HOH	W5129	21.714	12.615	35.721	1.00	33.09	O
ATOM	2847	O	HOH	W5130	8.469	6.895	52.440	1.00	45.76	O
ATOM	2848	O	HOH	W5131	26.110	4.660	30.832	1.00	35.30	O
ATOM	2849	O	HOH	W5132	19.463	-23.363	14.165	1.00	35.76	O
ATOM	2850	O	HOH	W5133	13.443	20.073	-9.252	1.00	40.04	O
ATOM	2851	O	HOH	W5134	9.131	8.743	16.901	1.00	44.35	O
ATOM	2852	O	HOH	W5135	2.141	8.144	15.984	1.00	43.82	O
ATOM	2853	O	HOH	W5136	8.533	27.824	6.026	1.00	33.71	O
ATOM	2854	O	HOH	W5137	23.489	23.402	0.284	1.00	47.94	O
ATOM	2855	O	HOH	W5138	19.996	15.564	-7.451	1.00	42.23	O
ATOM	2856	O	HOH	W5139	3.830	6.820	-6.454	1.00	43.70	O
ATOM	2857	O	HOH	W5140	15.282	15.611	18.402	1.00	41.11	O
ATOM	2858	O	HOH	W5141	17.265	26.061	11.713	1.00	39.14	O
ATOM	2859	O	HOH	W5142	23.754	1.893	-2.493	1.00	45.81	O
ATOM	2860	O	HOH	W5143	26.488	3.338	6.608	1.00	42.72	O
ATOM	2861	O	HOH	W5144	6.963	4.729	1.634	1.00	33.11	O
ATOM	2862	O	HOH	W5145	-0.293	3.358	3.517	1.00	47.82	O
ATOM	2863	O	HOH	W5146	13.304	0.010	14.071	1.00	44.49	O
ATOM	2864	O	HOH	W5147	14.485	-0.911	11.196	1.00	34.10	O
ATOM	2865	O	HOH	W5148	38.684	-3.391	16.424	1.00	42.58	O
ATOM	2866	O	HOH	W5149	-0.378	-3.887	41.179	1.00	39.92	O
ATOM	2867	O	HOH	W5150	14.999	10.060	38.087	1.00	56.40	O
ATOM	2868	O	HOH	W5151	27.440	-10.394	33.773	1.00	51.57	O
ATOM	2869	O	HOH	W5152	9.035	-7.425	0.106	1.00	46.37	O
ATOM	2870	O	HOH	W5153	5.110	-2.372	2.316	1.00	33.68	O

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ATOM	2871	O	HOH	W5154	29.018	-14.387	13.400	1.00	40.14	O
ATOM	2872	O	HOH	W5155	1.676	-2.447	9.577	1.00	41.85	O
ATOM	2873	O	HOH	W5156	20.185	11.538	-6.635	1.00	37.49	O
ATOM	2874	O	HOH	W5157	15.389	-28.857	26.962	1.00	41.90	O
ATOM	2875	O	HOH	W5158	-6.106	19.784	6.635	1.00	36.72	O
ATOM	2876	O	HOH	W5159	5.517	17.184	13.233	1.00	48.23	O
ATOM	2877	O	HOH	W5160	5.076	15.020	11.985	1.00	45.45	O
ATOM	2878	O	HOH	W5161	5.445	-7.849	27.659	1.00	39.11	O
ATOM	2879	O	HOH	W5162	20.980	18.101	37.922	1.00	29.42	O
ATOM	2880	O	HOH	W5163	16.748	-29.146	3.293	1.00	42.39	O
ATOM	2881	O	HOH	W5164	30.770	4.871	31.188	1.00	43.36	O
ATOM	2882	O	HOH	W5165	3.854	-8.929	29.337	1.00	54.81	O
ATOM	2883	O	HOH	W5166	10.593	19.605	16.042	1.00	47.04	O
ATOM	2884	O	HOH	W5167	42.095	8.840	19.150	1.00	49.61	O
ATOM	2885	O	HOH	W5168	9.957	11.390	13.550	1.00	42.37	O
ATOM	2886	O	HOH	W5169	-4.606	21.333	1.399	1.00	48.40	O
ATOM	2887	O	HOH	W5170	11.695	29.342	6.480	1.00	58.15	O
ATOM	2888	O	HOH	W5171	23.099	25.128	3.657	1.00	40.99	O
ATOM	2889	O	HOH	W5172	23.505	24.766	-3.702	1.00	44.31	O
ATOM	2890	O	HOH	W5173	14.447	17.461	20.573	1.00	40.93	O
ATOM	2891	O	HOH	W5174	11.974	23.606	15.698	1.00	50.59	O
ATOM	2892	O	HOH	W5175	33.868	19.345	11.374	1.00	39.71	O
ATOM	2893	O	HOH	W5176	8.306	-9.142	31.222	1.00	42.33	O
ATOM	2894	O	HOH	W5177	12.171	14.379	29.266	1.00	52.75	O
ATOM	2895	O	HOH	W5178	29.974	-2.958	37.157	1.00	38.64	O
ATOM	2896	O	HOH	W5179	30.177	1.102	3.621	1.00	43.39	O
ATOM	2897	O	HOH	W5180	13.634	0.062	1.980	1.00	43.54	O
ATOM	2898	O	HOH	W5181	9.893	10.792	25.719	1.00	35.63	O
ATOM	2899	O	HOH	W5182	15.133	16.851	24.775	1.00	34.15	O
TER	2900		HOH	W5182						
ATOM	2901	N1A	COE	E4002	19.788	-13.382	22.863	1.00	37.66	N
ATOM	2902	C2A	COE	E4002	19.629	-12.509	21.832	1.00	37.59	C
ATOM	2903	N3A	COE	E4002	18.590	-12.603	20.980	1.00	37.39	N
ATOM	2904	C4A	COE	E4002	17.686	-13.627	21.196	1.00	37.85	C
ATOM	2905	C5A	COE	E4002	17.805	-14.571	22.262	1.00	38.04	C
ATOM	2906	C6A	COE	E4002	18.900	-14.393	23.079	1.00	38.11	C
ATOM	2907	N6A	COE	E4002	19.128	-15.221	24.120	1.00	38.32	N
ATOM	2908	N7A	COE	E4002	16.749	-15.454	22.198	1.00	38.10	N
ATOM	2909	C8A	COE	E4002	15.977	-15.090	21.125	1.00	38.02	C
ATOM	2910	N9A	COE	E4002	16.529	-13.990	20.508	1.00	38.30	N
ATOM	2911	C71	COE	E4002	15.927	-13.354	19.309	1.00	38.56	C
ATOM	2912	C72	COE	E4002	15.686	-14.244	18.059	1.00	38.64	C
ATOM	2913	O72	COE	E4002	16.358	-13.703	16.916	1.00	37.72	O
ATOM	2914	C73	COE	E4002	14.168	-14.225	17.883	1.00	39.06	C
ATOM	2915	O73	COE	E4002	13.797	-14.451	16.455	1.00	38.84	O
ATOM	2916	P73	COE	E4002	14.041	-15.822	15.721	1.00	39.24	P
ATOM	2917	O7A	COE	E4002	13.165	-15.826	14.433	1.00	39.04	O
ATOM	2918	O8A	COE	E4002	15.540	-15.939	15.325	1.00	39.12	O
ATOM	2919	O9A	COE	E4002	13.637	-17.009	16.646	1.00	39.35	O
ATOM	2920	C74	COE	E4002	13.826	-12.831	18.392	1.00	39.77	C
ATOM	2921	O74	COE	E4002	14.690	-12.631	19.516	1.00	39.23	O
ATOM	2922	C75	COE	E4002	12.345	-12.657	18.817	1.00	40.70	C
ATOM	2923	O75	COE	E4002	12.121	-11.261	19.226	1.00	42.75	O
ATOM	2924	P1A	COE	E4002	10.787	-10.752	19.901	1.00	43.64	P
ATOM	2925	O3A	COE	E4002	9.754	-11.915	20.051	1.00	43.83	O
ATOM	2926	O4A	COE	E4002	10.208	-9.595	19.036	1.00	44.05	O
ATOM	2927	O5A	COE	E4002	11.200	-10.230	21.306	1.00	43.87	O

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